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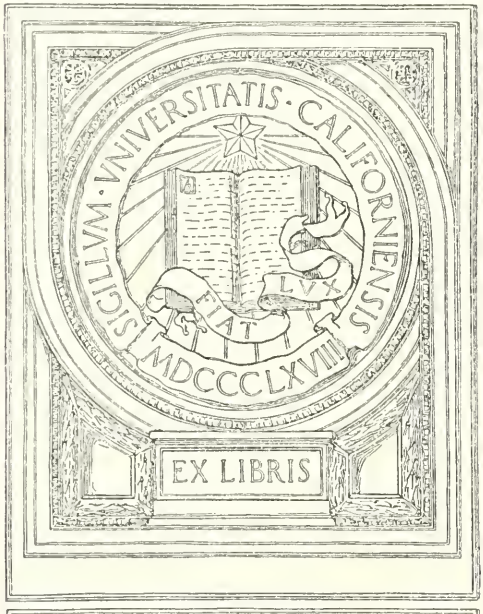

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CATALOGUE

OF THE

HOPKINS RAILWAY LIBRARY

BY

FREDERICK J. TEGGART, B. A.
ASSISTANT LIBRARIAN

PALO ALTO, CALIFORNIA
1895

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INTRODUCTION.

This catalogue, prepared during the past year by Mr. F. J. Teggart, the assistant librarian having the immediate care of the Hopkins Library, numbers 9,245 books and pamphlets. A writer in the *Railroad Gazette* of November 8, 1889, noticing at length the considerable collection of railway books included in the published Catalogue of the Library of the Prussian Department of Public Works, deplores the fact that he is not able to point to a similar special collection on this subject in the United States. It is hoped that the present collection and catalogue will in some degree direct attention to the extensive literature relating to railways, and stimulate an interest in its collection and preservation. The American Society of Civil Engineers and the Office of Poor's *Railroad Manual* each has a considerable number of books upon the subject; and in Europe, the Prussian Department of Public Works, the Würtemburg State Railways, the Austrian State Railways, and the Austrian *Nordbahn*, each possesses an important collection. Doubtless, too, if the railway books in so vast a library as that of the British Museum were segregated, the showing would be large.

The history, in brief, of the Hopkins Railway Library dates from the time, a few years since, when Mr. Timothy Hopkins, of San Francisco, while Treasurer of the Southern Pacific Company, brought together gradually the material which constituted the beginnings of the collection. In April, 1892, six months after the opening of this University, he presented to the institution his railway library, which then numbered 2,000 volumes and pamphlets, at the same time providing for its maintenance and increase. Purchases were made as opportunity offered, until the autumn of 1894, when more systematic methods were employed. Circulars were sent generally to railway officials and to dealers in second-hand books, with the result that the accessions during the past year were unusually numerous.

The scope of the collection is intended to embrace all subjects touching upon railway interests, so that the books may be useful both to the practical railway officer and to the student investigating the economic problems connected with transportation. How extensive this literature is at present, and how great its bulk is likely to become, is suggested by the railway statistics of this country alone. The Report for 1893 of the Statistician of the Interstate Commerce Commission showed the number of railway corporations to be 1,890; the total mileage, 176,461; the number of employes, 873,602; the number of passengers carried, 593,560,612; the number of tons of freight transported, 745,119,482; and the aggregate of property classified as railway capital, $10,506,235,410.

This catalogue is published at the present time in order that the collection may be made immediately useful to those interested in the subject, and that the increase of the collection may be facilitated; while, as already stated, it is hoped that the publication will not prove unavailing in heightening the interest in the literature of railways.

EDWIN H. WOODRUFF,
Librarian.

Library of the Stanford University,
September, 1895.

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EXPLANATORY NOTE.

Although a book may treat of two or more subjects, it is entered but once in this catalogue, except that under the heading Bibliography some titles are printed that also appear elsewhere. These titles that are repeated under Bibliography are, however, distinguished by the omission of the pagination. Moreover, for the reason that titles are not repeated, the "Index to Personal Names" should always be consulted when the author's name is known.

ABBREVIATIONS.

anon., anonymous.
Bd., Band.
bd., bound.
ca., circa.
cm., centimeters.
cts., cuts.
diagr., *diagrs.*, diagram, diagrams.
ed., éd., edition, édition.
engr., *engrs.*, engraving, engravings.
fig., *figs.*, figure, figures.
fold., folded.
frontisp., frontispiece.
illus., illustrated, illustrations.
in., inch, inches.
M., in vol. lettered "Railway Memoirs."
m., mile, miles.
MS., manuscript.
n.d., no date of publication.
no., number.
n.p., no place of publication.
n.t.p., no title-page.
P., in vol. lettered "Railway Pamphlets."
p., *pp.*, page, pages.
photo., *photos.*, photograph, photographs.
port., *ports.*, portrait, portraits.
pseud., pseudonym.
pt., *pts.*, part, parts.
vol., vols., volume, volumes.

TABLE OF SIZES.

Fe (48°) used of books up to		10	centimeters in height.
Tt (32°) used of books from		10 to 12.5	" "
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" sq. " " " is more " three-fourths the height.
" obl. " " " is more " the height.

CATALOGUE

OF THE

Hopkins Railway Library.

Bibliography.

American Society of Civil Engineers. Index to the library [of the Society]. Part I. Railroads. N. Y., 1881. O. pp. 189.

—— List of duplicates, November, 1894. n.t.p. [N. Y., 1894]. O. pp. 54. P. 100.
Railroads, pp. 20-30.

Anderson, A. D. The Tehuantepec interocean railroad. N. Y., and Chicago, 1880. O.
Bibliography, pp. 85-90.

Andrew, *Sir* **W. P.** Indian railways as connected with British Empire in the East. 4th ed. Lond., 1884. O.
Bibliography of author's writings relating to railways, pp. 281-296.

Annuaire des chemins de fer. 1889-93. 4e-8e année. Paris, 1889-93. O.
"Journaux, revues et publications périodiques relatifs aux chemins de fer," pp. 17-18; 18-23; 24-29; 31-36; 31-36.

Archiv für Eisenbahnwesen. 15-17 Jahrgang. Berlin, 1892-94. O.
"Buchersehau" in each no. gives extensive notices, list of new works, and index of articles in current journals relating to railways.

Association of Engineering Societies. Descriptive index of current engineering literature. Vol. I. 1884-1891. Chicago, 1892. O. pp. xiv + 475.
"Railroads", pp. 296-333, and throughout.

Biot, E. L'architetto delle strade ferrate, ovvero saggio sui principi generali dell' arte di formare le strade a ruotaje di ferro. Recato in Italiano dall' ing. Luigi Tatti. Milano, 1837. sq. Q.
Bibliography, pp. 230-237.

Boston, *Mass.* — *Public Library.* Mountain railroads: list [of] works on mountain railroads operating on the center ratchet rail system. Boston, 1879. Q.
In *Bulletin of the Boston Public Library.* Apr. 1879. Vol. 4. pp. 70-71.

Brosius, J. Wörterbuch der Eisenbahn-Materialien für Oberbau, Werkstätten, Betrieb und Telegraphie. Wiesbaden, 1887. O.
Bibliography, pp. vii-viii. 52 titles.

Broughton, F. Catalogue of a collection of books on railway legislation, management, &c. London, Ont., 1883. O. pp. 18.
Aequired by the Hopkins Railway Library.

Cattaneo, C. Rivista di vari scritti intorno alla strada ferrata da Milano a Venezia. Milano, 1841. O. P. 73.
Bibliography, p. 3. 21 titles.

Carpentier, A. *and* **Maury, G.** Traité pratique des chemins de fer. Paris, 1894. 3 vols. O.
Bibliography, vol. 1, pp. 10-102.

Cazeneuve, A. Les chemins de fer à l' Exposition universelle [de 1878.] Paris, 1879-81. 4 vols. D.
Bibliography, vol. 4. pp. 145-150. 42 titles.

Clark, A. S. [List of second-hand books and pamphlets on railroads.] [N. Y., 189—]. O. pp. (2). P. 62.
Extracted from his *Catalogue,* no.—

—— [*Same*]. N. Y., 1894. O. pp. (4). P. 62.
Extracted from his *Catalogue,* no. 39, 1894. pp. 19-22.

[Collection of booksellers' catalogues and announcements, mainly relating to railways.] v.p. 1891-95. 26 nos. bd. in 1 vol. O. P. 62.

—— [*Same*]. v.p. 1886-95. 10 nos. bd. in 1 vol. O. P. 100.

Costruzione ed esercizio delle strade ferrate e delle tramvie. Torino, 1887-91. F.
In progress. Bibliography appended to most of the completed chapters.

Cotterell, S. A bibliography and priced catalogue of early railway books; offered for sale by Edward Baker. Birmingham, 1893. 8. pp. 23.

—— A handbook to various publications, connected with the rise and development of the railway system, chiefly in Great Britain and

Ireland; to be sold by Edward Baker. Birmingham, 1893. S. pp. 128.
Cover title.

[——?] Supplement to the railway handbook. Birmingham, [1895.] S. pp. 92.
Cover title.

Davis, C. H. Report on interoceanic canals and railroads between the Atlantic and Pacific oceans. Washington, 1867. O.
Bibliography, pp. 32-37. 104 titles.

Demarteau, A. Gedankenlese über die Wichtigkeit des Fairlie'schen Locomotiv-Systems. Wien, [1872.] O. P. 28.
Bibliography, p. 44. 10 titles.

Dornig, A. Usi ed abusi delle ferrovie. Milano, 1883. O.
Bibliography, pp. 191-197. 85 titles.

Eger, G. Handbuch des preussischen Eisenbahnrechts. Breslau, 1889. O
Bibliography, pp. 6-23.

—— Das internationale Uebereinkommen über den Eisenbahnfrachtverkehr. Berlin, 1894. O.
Bibliography, pp. xiii-xiv. 66 titles.

Endemann, W. Das Recht der Eisenbahnen. Leipzig, 1886. O.
Bibliography, pp. 30-32.

Galloupe, F. E. An index to engineering periodicals. 1883-92. Boston, 1888-93. 2 vols. O. pp. vi + 294; x + 396.
Vol. 1, 1883-87 inclusive. Vol. 2, 1888-92 inclusive.

Geerling, K. F. A. Militäranwärter im Staats- und Privat-Eisenbahndienst. Berlin, 1890. O.
Bibliography of author's writings, p. 112.

Gerstner, T. Internationales Eisenbahn-Frachtrecht. Berlin, 1893. O.
Bibliography, pp. xiv-xviii.

Gillespie, W. M. A manual of the principles and practice of road making. N. Y., 1847. O.
Bibliography, pp. 5-6. 59 titles.

Grossmann, J. Die Schmiermittel: Methoden zu ihrer Untersuchung und Wertbestimmung. Wiesbaden, 1894. O.
Bibliography, p. 184. 17 titles.

Hadley, A. T. Railroad transportation: its history and its laws. N. Y., and Lond., 1893. D.
Bibliography at head of each chapter.

Haferkorn, H. E. Handy lists of technical literature. Part III., engineering and mechanics. Milwaukee, 1890. O. pp. (6) + 168.
Railways, pp. 78-81, and throughout.

Hammond, H. B. Catalogue of [his] railroad library, comprising the principal works on the construction and operation of railroads in the United States and Europe. N. Y., [1895.] O. pp. 28. P. 62.
Railways, pp. 1-15. "About 750 vols." Cover title.

Handbuch des Eisenbahnwesens, in ökonomischer, rechtlicher, administrativer und technischer Beziehung. Stuttgart, [1875-81]. 5 vols in 3. O.
Bibliography, vol. v. pp. 961-964. 144 titles.

Heusinger von Waldegg, E., *editor.* Handbuch für specielle Eisenbahn Technik. 4. Aufl. Leipzig, 1874-82. 5 vols. and 5 *Atlases.* Q.
Bibliography appended to each chapter.

Hoepli, U. Catalogo nr. 29. Ingegneria. Milano, 1886. O. pp. 36. P. 100.
Elettricità, strade ferrate, tramways, ecc. pp. 1-20. Cover title.

—— Catalogo n. 90. Ingegneria, idraulica, ecc. Milano, 1893. O. pp. 162. P. 100.
Cover title. Ferrovie e tramways, pp. 37-51.

Hollander, J. H. The Cincinnati Southern railway: a study in municipal activity. Baltimore, 1894. O. pp. 96.
Bibliography, pp. 94-96. 32 titles.

Huber, O. Die Concessionserteilung für Strassen-Eisenbahn- und Tramway-Unternehmungen. Bülach, 1889. O.
Bibliography, pp. 7-10. 67 titles.

Hull, C. H. Die deutsche Reichspacketpost. Jena, 1892. O.
Bibliography, pp. 156-161. "Post und Eisenbahn," 37 titles.

Jaeger, J. Die Eisenbahnkunde. München, 1887. O.
Bibliography, pp. 8-10.

Kafka, E. Eisenbahn-Angelegenheiten und Personalien in lexikalischer Form. Leipzig, 1885. O.
Bibliography throughout.

Kandt, M. Ueber die Entwickelung der australischen Eisenbahnpolitik. Berlin, 1894. O.
Bibliography, pp. ix-xxxiv.

Kaven, A. von. Stützmauern und Steinbekleidungen. Dresden, 1882. O.
Bibliography, pp. 45-51. 68 titles.

Koch, R. Meccanica delle strade ferrate: traduzione di Michele Fraehn. Torino, 1887. O.
Bibliography, pp. 799-827. 938 titles.

Lacroix, E., *publisher.* Extrait du catalogue de la librairie scientifique, industrielle et agricole: chemins de fer, routes, ponts et viaducs. Paris, 1880. O. pp. (32). P. 28.

Lévy-Lambert, A. Chemins de fer à crémaillère. Paris, 1892. O.
Bibliography, p. 299. 14 titles.

—— Chemins de fer funiculaires, transports aériens. Paris, 1894. O.
Bibliography, pp. 329-330. 37 titles.

Leyen, A. von der. Die Finanz-und Verkehrspolitik der nordamerikanischen Eisenbahnen. Berlin, 1894. Q.
Bibliography, p. (8). 11 titles.

Lorenz, A. Strassenbahnen mit Dampfbetrieb, Dampftramway. Brunn, 1884. nar. O. P. 34.
Bibliography, p. 23. 6 titles.

Loria, L. Corso di lezioni sulle strade ferrate. Milano, 1869-70. 2 vols. bd. in 1. sq. Q., and *Atlas*, nar. F.
Bibliography, vol. II, pp. 327-328. 30 titles.

—— Le strade ferrate. 2 ed. Milano, 1892. 2 vols. O.
Bibliography, vol. II, pp 591-606. 334 titles.

Noël, O. Les chemins de fer en France et à l'étranger. Paris, 1887. D.
Bibliography, pp. xii-xiv. 75 titles.—Works by the same author, p. (2). 18 titles.

Partington, C. F. An historical and descriptive account of the steam-engine. 2nd ed. Lond., 1826. O.
Bibliography, pp. 292-294. 43 titles.

Pattinson, J. P. British railways. 2nd ed. Lond., 1893. O.
Bibliography, pp. 251-252. 10 titles.

Perdonnet, A. Notions générales sur les chemins de fer. Paris, [1859.] S.
"Bibliographie raisonnée des chemins de fer," pp. 371-445.

Poor, L. E., *editor.* The first international railway and the colonization of New England: life and writings of John Alfred Poor. N. Y., and Lond., 1892. O.
"List of published writings" of J. A. Poor on railways, pp. 136-141. 66 titles.

Railroad Branch, Young Men's Christian Association of New York City. Catalogue of the library. N. Y., 1892. Q. pp. 121.
"Railroads," p. 71. 72 titles. "Railroad books," pp. 104-118; a classified list, with notes.

Rosenthal, E. Internationales Eisenbahn-Frachtrecht. Jena, 1894. Q.
Bibliography, pp. xvii-xxii.

Sauvage, E. Le système anglais des signaux de chemins de fer. Paris, 1893. O. p. 61.
Bibliography, pp. 58-59. 17 titles.

Schweiger-Lerchenfeld, A. von. Vom rollenden Flügelrad. Wien, 1894. O.
Bibliography, pp. 760-763. 110 titles.

Seiler, O. Ueber die rechtliche Natur der Eisenbahn-Konzessionen nach schweizerischen Recht. Zürich, 1888. O.
Bibliography, p. (3). 19 titles.

Smiles, R. Memoir of the late Henry Booth. Lond., 1869. O.
"Mr. Booth's writings," chap. 7-9; pp. 57-95, mainly relating to railways.

Szczepanski, F. von. Bibliotheca polytechnica: internationale Bibliographie der gesammten neuen technischen Litteratur. I. Jahrgang 1893. St. Petersburg und Leipzig, 1893. O. pp. (4) + 261 + lxxxix.
Railways, pp 9-13; 60-61; 113-116; 217-220.

Ulrich, F. Das Eisenbahntarifwesen im Allgemeinen. Berlin und Leipzig, 1886. O.
Bibliography, pp. 501-501.

—— Traité général des tarifs de chemins de fer. Paris, 1890. O.
Bibliography, pp. 545-550.

United States — *Department of State.* Report of the International American Conference relative to an intercontinental railway line. Washington, 1890. O.
Bibliography, pp. 196-198. List of maps, 199-200.

Vose, G. L. Manual for railroad engineers and engineering students. Boston, 1885. O.
Bibliography, p. vii. 16 titles.

Wanner, M. Geschichte der Begründung des Gotthardunternehmens. Bern, 1880. O.
Bibliography, pp. 3-8. 77 titles.

Weber, M. M., *Freiherr* **von.** On the training of railways for war, in time of peace; translated by Robert Mallet. Lond., 1871. O.
Bibliography, pp. 108-110. 53 titles.

—— Die Praxis des Baues und Betriebes der Secundärbahnen. Weimar, 1873. O.
Bibliography, pp. 132-135. 45 titles.

Winkler, E. Vorträge über Eisenbahnbau. Prag, 1875-78. 5 pts. O.
Bibliography to each pt.

Wolf's naturwissenschaftliches Vademecum. Abth. 4. Bd. 1. Maschinenbau, Eisenbahnwesen, etc. Die Litteratur bis 1890 enthaltend. Leipzig, [1890]. O. pp. 132.
Cover title.

Periodicals and Transactions.

Agendas Dunod, 1895: no. 6. Chemins de fer à l'usage des ingénieurs, mécaniciens, chefs de gare, et de tous les agents de la construction, de l'entretien, de la traction et de l'exploitation. Paris, 1895. nar. S.

American journal of railway appliances. Vol. 8. no. 3. Mar. 15, 1888. N. Y., and Chicago, 1888. F[1].

American mechanics' magazine: containing original matter on subjects connected with manufactures, the arts and sciences, as well as selections from domestic and foreign journals; conducted by associated mechanics. Vol. 1. N. Y., 1825. O.
Contains interesting material concerning early railroads.

American railroad journal and advocate of internal improvements; published by D. K. Minor, editor and proprietor [Vol. 1–4; by D. K. Minor and G. C. Schaeffer, vol. 5, 6.] Vol. 1–6. N. Y., 1832–38. 6 vols. F.
Vol. 1. no. 1. "Rail-road journal"; No. 2-35, "American railroad journal." United with the *Mechanics' magazine* (*see infra*) and continued as:

American railroad journal and mechanics' magazine; editors and proprietors, D. K. Minor and G. C. Schaeffer, [vol. 7, 8; G. C. Schaeffer and E. Hedge, vol. 9–13; G. C. Schaeffer, vol. 14, 15; G. C. Schaeffer and D. K. Minor, vol. 16, 17.] Vol. 7–17. N. Y., 1838–44. 11 vols. bd. in 4. O.
Lacking vol. 13, 14; no. 9, vol 16; vol. 17. Continued as:

American railroad journal and general advertiser for railroads, canals, steamboats, machinery, and mines; D. K. Minor, editor and proprietor. Vol. 18–20. N. Y., and Philadelphia, 1845–47. 3 vols. Q.
Lacking, no. 7, 8, 15, 28, vol. 20. Continued as:

American railroad journal and iron manufacturer's and mining gazette; D. K. Minor, editor and proprietor. Vol. 21. nos. 1–4, 6–11, 21–24. Philadelphia, 1848. 14 pts. Q.
Continued as:

American railroad journal: steam navigation, commerce, mining, manufactures; Henry V. Poor, editor. Vol. 23. no. 35, 47, 48, 51; vol. 24. no. 1, 2, 22, 44, 48, 49, 51, 52; vol. 28. no. 1–4, 6–52. N. Y., 1850–55. bd. in 4 vols. Q.
Continued as:

American railroad journal: steam navigation, commerce, finance, engineering, machinery, mining, manufactures; J. H. Schultz, editor and proprietor. Vol. 52. no. 10–14, 16, 17, 19. N. Y., 1879. 8 pts. Q.
Continued as:

American railroad journal: steam navigation, commerce, finance, machinery, mining, manufactures, new inventions, tramways. Vol. 56. no. 13. N. Y., 1883. Q.
Continued as:

American (The) railroad journal: a monthly magazine and review. Vol. 58–60. Apr. 1884—Dec. 1886. N. Y., 1885–86. 3 vols. Q.
United with *Van Nostrand's engineering magazine* and continued as:

Railroad (The) and engineering journal; published by M. N. Forney. Vol. 61–66. N. Y., 1887–92. 6 vols. Q.
Continued as:

American engineer and railroad journal; published by M. N. Forney. Vol. 67–68+ N. Y., 1893–94 + 2 vols. Q.

American railroad manual for the United States and the Dominion: containing particulars of the mileage, capital stock, bonded debt, equipment, earnings, expenses, and other statistics of railroads. [1873, 1874]; compiled and edited by E. Vernon. N. Y., 1873–74. 2 vols. Q.

American Railway Master Mechanics' Association. 3rd annual report: convention at Philadelphia, Sept. 14–16, 1870. Chicago, 1870. O.

American (The) railway officials' annual: a compilation of information for the use of all interested in the management, construction and operation of American railways; published by J. H. Coyne & Co. [Vol. 2.] Chicago, 1892. obl. S.

American Society of Civil Engineers. Proceedings. Vol. 1–20. Nov. 1873–Dec. 1875. Jan. 1876–Dec. 1894. N. Y., 1876–94. 20 vols. bd. in 4. O.

—— Transactions. Vol. 1–32. 1868–71; 1872–73; 1874; Mar.–Dec. 1875; Jan.–Dec. 1876–86; Jan.–June, 1887—July–Dec. 1892; Jan.–June, July–Sept., Oct.–Dec. 1893; Jan.–June, July–Dec. 1894. N. Y., 1872–94. 32 vols. O.

—— *Same.* Index to vol. 1–21; by John Bogart. N. Y., 1890. O. p. 272.

American Street Railway Association. Verbatim report of the 2nd–13th annual meeting: 1883–84—1894–95. Brooklyn, N. Y., 1884–95. bd. in 4 vols. O.
Lacking 9th report.

Annuaire-almanach des chemins de fer. 1e–2e année. Paris, 1886–87. 2 vols. bd. in 1. O.
Continued as:

Annuaire des chemins de fer. 3e–8e année; E. Marchal, directeur. Paris, 1888–93. 6 vols. O.

Annuaire - Chaix: les principales sociétés par actions, compagnies de chemins de fer, institutions de crédit, [etc.] 4e année. Paris, 1895. D.

Arcana of science and art: or, an annual register of inventions and improvements, abridged from the transactions of public societies, and from the scientific journals. [3rd,] 6th, 7th, 9th year. Lond., 1830-36. 4 vols. D.
Contains interesting material relating to early railways.

Archiv für Eisenbahnwesen; herausgegeben im Ministerium der öffentlichen Arbeiten. 15–17 Jahrgang+ Berlin, 1892–94+ 3 vols. O.

Ashcroft's railway directory for 1863: containing an official list of all the officers and directors of the railroads in the loyal States and Canadas, together with their financial condition and amount of rolling stock. N. Y., [1863?] O.

Association (The) of American Railway Accounting Officers. 1st–7th report of proceedings at the meeting held at N. Y., 25–26th July, 1888; St. Louis, Mo., 24–25th Jan. 1889; ——; New Orleans, 22–23rd Jan. 1890; Cape May, N. J., 9–10th July, 1890; St. Louis, Mo., 27–28th May, 1891; Chicago, Ill., 25–26th May, 1892. Chicago, 1888–92. 6 vols. bd. in 1. O.
Lacking 3rd report.

—— Synopsis of the Association's proceedings from its formation to May 1891, inclusive. Chicago, 1891. O. pp. 53.

Bollettino dei trasporti e dei viaggi in ferrovia. Anno 1–11+ Milano, 1884–94+ 11 vols. bd. in 4. F.

Bradshaw's railway almanack, directory, shareholders' guide, and manual for 1848–1849. Lond., Manchester, [1847–48.] 2 vols. D.
Lacking vols. for 1850–52. Continued as:

Bradshaw's general shareholders' guide, manual and railway directory, for 1853; edited by J. Edwards. Lond., Manchester, 1853. D.
Continued as:

Bradshaw's shareholder's guide, railway manual and directory, 1854–62. Lond., Manchester, 1854–62. 9 vols. D.
Continued as:

Bradshaw's railway manual, shareholders' guide, and official directory for 1863–95. Vol. 15–47+ London, Manchester, 1863–95+ 22vols. D.
Lacking vol. 21–22, 24–26, 28–31, 34–35.

Bradshaw's railway gazette. Vol. 1–3. July 12–Oct. 4, 1845; Oct. 8, 1845–Jan. 10, 1846; Jan. 14–July 16, 1846. Lond., and Manchester, 1845–46. 3 vols. sq. Q.

Brotherhood of Locomotive Engineers' journal. Vol. 3. no. 1–4; vol. 6. no. 1–6, 8–11; vol. 7, 9, 11, 29 + Fort Wayne, Ind., 1869; Cleveland, O., 1872–95. O.

Bulletin annoté des chemins de fer en exploitation, ou Recueil périodique des lois, décrets, circulaires et arrêtés ministériel, jugements des tribunaux, etc. concernant l'exploitation technique et commerciale des chemins de fer; publié sous la direction de Lamé Fleury. Tome 1–7, 28 + Paris, 1868–74, '95 + 7 vols. bd. in 4. O.

Bulletin de la Commission du Congrès des Chemins de fer. Vol. 9 + Bruxelles, 1895 + O.

Bulletin des transports internationaux par chemins de fer; publié par l' Office central à Berne. Vol. 1–2 + Berne, 1893–94 + 2 vols. sq. Q.

Capitalist's (The) guide and railway annual for 1859, containing all the railroads completed and in progress in the United States; by F. H. Stow. N. Y., 1859. D.

Central Railway Club. Proceedings, 1893–94 + Buffalo, N. Y., 1893–94 + 2 vols. D. and O.

Chemin de fer (Le): journal hebdomaire suisse pour les intérêts des chemins de fer. *See* infra; **Eisenbahn** (Die): schweizerische Wochenschrift.

Chemin de fer (Le): littéraire, politique, professionnel, scientifique. 3e année + Paris, 1894 + F[4].

Chicago railway review: a weekly journal of railways, navigation, telegraphs and finance. Vols. 10–15. Chicago, 1875–77. 6 vols. bd. in 3. F[4].
Lacking vols. 16–19. Continued as:

Railway review: a weekly journal &c. Vol. 20–21. Chicago, 1880–81. 2vols. F[4].
Continued as:

Railway (The) review: a journal of railway and engineering intelligence; by Willard A. Smith. Vol. 24–31. Chicago, 1884–94. 7 vols. F[4].
Lacking vols. 27–29; 31.

Congrès Internationale des Chemins de fer. Congrès des chemins de fer: Bruxelles, 8 au 15 août 1885: 2e–4e session; Milan, 17 au 24 sept. 1887; Paris, 14 au 23 sept. 1889; Saint-Petersbourg, août-sept. 1892. Compte rendu général. Bruxelles, 1886–93. 11 vols. Q.

Consular reports. *See* **United States** — *Department of State.*

Cook's Australasian travellers' gazette and tourist advertiser. Vol. 4. Melbourne, 1892. F[4].

Cook's excursionist and home and foreign tourist advertiser. Vol. 42. Lond., 1892. F[4].

—— *Same.* American ed. Vol. 42, 44 + N. Y., 1892, 94 + F[4].

Cook's Oriental travellers' gazette and home and foreign advertiser. Vol. 4. Bombay, 1892. F[4].

Cook's Welt-Reise-Zeitung. Deutsche Ausgabe. 3 Jahrgang. Wien, 1892. F[4].

Deutsche Verkehrs-Blätter und allgemeine deutsche Eisenbahn-Zeitung: Wochenschrift für Eisenbahn,-Post-und Telegraphenwesen. Organ des Verbandes deutscher und oesterreichischer Eisenbahn-Beamtenvereine; herausgegeben von R. Krause. 8–10 Jahrgang + Leipzig, 1892–94 + 3 vols. F.

Dunsford's stock exchange handbook of railway and other securities; issued by John Shaw, stock & share dealer. 5th annual publication, 1894. [Lond., 1894.] nar. S.

Eisenbahn (Die): schweizerische Wochenschrift für die Interessen des Eisenbahnwesens. Bd. 1–3. [*French title:*] Le chemin de fer: journal hebdomaire suisse pour les intérêts des chemins de fer. Zürich, 1874–75. 3 vols. F.
Continued as:

Eisenbahn (Die): schweizerische Zeitschrift für Bau-und Verkehrswesen. Bd. 4–17. [*French title:*] Le chemin de fer: bulletin polytechnique. Zurich, 1876–82. 14 vols. bd. in 7. F.
Bd. 12–17 "herausgegeben von A. Waldner." Continued as:

Revue polytechnique: schweizerische Bauzeitung: Wochenschrift für Bau-, Verkehrs-und Maschinentechnik. Organ des Schweiz. Ingenieur-und Architecten-Vereins; herausgegeben von A. Waldner. Bd. 1–5. Zürich, 1883–85. 5 vols. bd. in 2. F.

Eisenbahn-Jahrbuch der österreichisch-ungarischen Monarchie. *See* **Oesterreichisches** Eisenbahn-Jahrbuch.

Eisenbahn-Kalender für Oesterreich-Ungarn. 1892–1895. 15–18 Jahrgang. Wien, 1891–94. 4 vols. T. and nar. S.
1895, "bearbeitet und redigirt von R. Hand. Neue Folge 1."

Eisenbahn-Schematismus für Oesterreich-Ungarn. 20 Jahrgang pro 1894/95. Wien, 1894. O.

Eisenbahn-Verordnungs-Blatt: herausgegeben im Ministerium der Öffentlichen Arbeiten. 15–17 Jahrgang + Berlin, 1892–94 + 3 vols. Q.

Engelmann's Kalender für Eisenbahn-Verwaltungs-Beamte des deutschen Reichs für das Jahr 1889. 7 Jahrgang. Berlin, 1888. 2 pts. in 1 vol. S.
Lacking vols. for 1890, 1891. Continued as:

Engelmann's Kalender für Eisenbahn-Beamte des deutschen Reiches für das Jahr 1892–94. 10–12 Jahrgang. Berlin, 1891–93. 3 vols. S.

Engineer (The). Vol. 1–78. Jan. 1856–Dec. 1894 + Lond., 1856–94. 78 vols. in 72. F[5].

Engineering: an illustrated weekly journal; conducted by Zerah Colburn. [Vol. 1–8; by W. H. Maw and J. Dredge, vol. 9–58.] Jan. 1866–Dec. 1894 + Vol. 1–58. Lond., 1866–94. 58 vols. F[4].

Engineering news and American railway journal. Vol. 26–32. N. Y., 1891–94. 7 vols. F[4].

Excursionniste (L') Cook: journal mensuel des voyageurs, touristes & excursionnistes. 12[e] année. Paris, 1892. F[4].

Flister's Kalender für Eisenbahn-Betriebs-und Verkehrs-Beamte des deutschen Reiches für das Jahr 1892-95. 9–12 Jahrgang. Berlin, 1891–94. 3 vols. S.
Lacking vol. for 1894.

Gaceta de los ferrocarriles de la isla de Cuba: organo oficial de la sociedad "Caja de Ahorros y de Socorros Mútuos" de empleados y obreros de los ferrocarriles. Vol. 3. no. 65 + Habana, 1895 + F.

General Railroad Association. Journal of the proceedings at their meeting holden in New York, Nov. 23, 1854. Newark, N. J., 1855. O. p. 90.
"The great object of [the Association] to secure, by combined experience, economy and safety to the public in the use of railroads, and a fair remuneration to stockholders."

Herapath's railway and commercial journal. *See* **Railway** magazine.

Home journal (The); published in the interests of the "Home" for aged and disabled railroad employees of the United States and Canada. Vol. 4. no. 4–vol. 5. no. 3. Apr. 1894–Mar. 1895. Chicago, 1894–95. 7 nos. F[4]. 5 nos. F.

Illinois railroad record. Vol. 1. no. 1. Sept. 1888. Springfield, Ill., 1888. Q.

Illustrated railroad world. Vol. 1. no. 3–5. Sept.–Nov. 1881. N. Y., 1881. F[4].

Indian railway companies, 1895: a hand-book for investors, stockbrokers, and officials. Compiled by E. W. Montgomery. 2nd annual issue. Lond., 1895. O.

Investors' handbook of railway statistics: 1878–94. 2nd ed. 9th [annual] issue. Lond., Oct., 1894. nar. S.

Journal des chemins de fer. 2[e]–18[e] année. Paris, 1843–59. 17 vols. bd. in 23. sq. Q.

Journal (The) of railroad car heating, lighting and ventilating: devoted to railroad passenger car improvement. Vol. 1. Sept. 1890–Aug. 1891. N. Y., 1891. sq. Q.
Continued as;

Railroad (The) car journal: devoted exclusively to the construction and maintenance of railroad car equipment. Vol. 2–4. Oct. 1891–Sept. 1892; Oct. 1892–Dec. 1893; Jan.–Dec. 1894 + N. Y., 1892-94 + 3 vols. F.

Kalender für Beamte der königl. württembergischen Staats-Eisenbahnen. 1893. 1 Jahrgang. Redaktion: Oberinspector Schall. Berlin, 1892. S.

Kalender für Eisenbahn-Beamte auf das Jahr 1892. 19 Jahrgang. Bearbeitet von Betriebs-Sekretär Gehrcke. Dresden, 1891. S.

Kalender für Eisenbahn-Fahr-Beamte des deutschen Reiches für das Jahr 1894. Berlin, 1893. S.

Kalender für Eisenbahn-Techniker; begründet von E. Heusinger von Waldegg, neubearbeitet von A. W. Meyer. 18–22 Jahrgang. 1891-95. Wiesbaden, 1890–94. 7 vols. nar. S.
Lacking vol. for 1893. Two pts. to each vol.

Locomotive (The); published by the Hartford Steam Boiler Inspection and Insurance Co. New series, vol. 1–15 + Hartford, Conn., 1880–94 + 15 vols. O.

Locomotive engineer: devoted to the special interests of locomotive engineers and firemen and to locomotive maintenance and repairs. Vol. 1–4. N. Y., 1888–91. 4 vols. F[4].
Continued as:

Locomotive engineering: a practical journal of railway motive power and rolling stock. Vol. 5–7 + N. Y., 1892–94 +

Locomotive firemen's magazine; edited by E. V. Debs, published by the Brotherhood of Locomotive Firemen. Vol. 4, 13, 17, 18 + Terre Haute, Ind., 1880, '89, '93, '94 + 4 vols. O.

London (The) mechanics' register. Vol. 1. Lond., 1825. O.
Contains interesting material relating to early railways.

Low's railway directory for 1862: an official list of officers and directors of the railroads in the United States and Canadas; compiled annually by J. W. Low. [Vol. 5.] N. Y., 1862. O.

Manual of railroads, *see* **[Poor's] Manual.**

Mathiesons' monthly traffic tables: compiled from official sources. Feb., 1895. Lond., 1895. nar. S.

Mechanics' magazine, and register of inventions and improvements. Vol. 1. Jan.–June, 1833. N. Y., 1833. O.
In 1838 united with *American railroad journal.*

Mechanics' (The) magazine, museum, register, journal, and gazette. Vol. 12. Lond., 1830. O.
Contains interesting material relating to early railways.

Mittheilungen des Vereines fur die Förderung des Local- und Strassenbahnwesens: officielles Organ des Verbandes der österreichischen Localbahnen. 1–2 Jahrgang + Wien, 1893–94 + 2 vols. Q.

Monthly investment list; issued by John Shaw, stock & share dealer. Nov. 1894. [Lond., 1894.] T.

National Association of Local Freight Agents' Associations. Proceedings of the 7th annual meeting, held at Pittsburg, Pa., June 12–15, 1894. Chicago, 1894. O.

National car and locomotive builder: devoted to the interests of railway rolling stock; R. M. Van Arsdale, proprietor, G. H. Baker, editor. Vol. 23–25 + N. Y., 1892–94 + 3 vols. F[5].

New England Roadmasters' Association. Proceedings of 11th, 12th annual convention, held at Boston, Mass. Aug. 16–17, 1893; Aug. 15–16, 1894. Northampton, Mass. 1893; Hartford, Conn. 1894. 2 vols. bd. in 1. O.

New York railroad men; published monthly by the Railroad Branch Young Men's Christian Association of the City of New York for circulation among railroad employees. Vol. 7. no. 4, 6; vol. 8. N. Y., 1894 + Q.

Oesterreichische Eisenbahn-Zeitung: Organ des Club oesterreichischer Eisenbahn-Beamten; für die Redaction verantwortlich, A. M. Edler v. Mährentreu. 15–17 Jahrgang + Wien, 1892–94 + 3 vols. sq. F.

Oesterreichisches Eisenbahn-Jahrbuch; verfasst und herausgegeben von Ignatz Kohn, revident bei der general Controle der Südbahn. Wien, 1868. O.
Continued as:

Eisenbahn-Jahrbuch der oesterreichisch-ungarischen Monarchie; von Ignaz Kohn. Jahrgang 1–18, 1868–85; 19, 1886–87; 20, 1888–89; 21, 1890–91 + Wien, 1868–92 + 21 vols. O.
Since 1883 "von Ignaz Konta."

Official (The) railway equipment guide: published by authority of the railways of the United States, Canada, and Mexico; containing statements of the rolling stock equipment of all railroads, fast freight lines and private car companies. Vol. 10. no. 11 + Apr. 1895 + N. Y., 1895 + F.

Official (The) railway list: a directory of the presidents, vice-presidents, etc., of railways in North America; published by the *Railway purchasing agent* co. [2d, 3d year.] Chicago, 1883–84 + 2 vols. obl. T.
Continued as:

Official (The) railway list: a complete directory of the presidents, vice-presidents, etc., of railways in North America, and handbook of useful information for railway men; published by the *Railway purchasing agent* co. [4th]–13th year + Chicago, 1885–94 + 10 vols. obl. T.

Official railway manual of the railroads of North America, for 1869-70, 1870–71: showing their financial condition, mileage, cost, earnings, expenses, and organization, together with a list of the railroads of the world; compiled by James H. Lyles. N. Y., [1869–70.] 2 vols. O.

Organ für die Fortschritte des Eisenbahnwesens in technischer Beziehung. Organ des Vereins deutscher Eisenbahnverwaltungen; begründet von E. Heusinger von Waldegg, herausgegeben von G. Barkhausen. Neue Folge. Bd. 31 + Wiesbaden, 1894 + sq. F.

—— 11. Ergänzungsband. Fortschritte der Technik des deutschen Eisenbahnwesens in den letzten Jahren. 6. Abtheilung. Wiesbaden, 1894. sq. F.

Pocket (The) list of railroad officials: containing the names of officials in charge of railroads, private car companies, fast freight lines and transportation companies of the United States, Canada and Mexico; published by the Railway Equipment and Publication Co. Vol. 1 + N. Y., 1895 + T.

Poor's directory of railway officials and railway directors: 1886–94, 1st–9th annual number; containing lists of the officers and directors of all railways in North America and of the leading organizations auxiliary to the railway system; lists of officers of South American and British railways, etc; compiled from official information. N. Y., [1886–94 +] 7 vols. O.
4th and 5th annual nos. were not published separately but were incorporated with "Poor's Manual" for 1889 and 1890 respectively.

Poor's hand-book of investment securities: a supplement to Poor's manual of railroads. [1st]–3rd annual number. July 1890–92. N. Y., [1890–92]. 3 vols. O.

[Poor's] Manual of the railroads of the United States for 1868/69–1878/79, 1879–94 +, showing their mileage, stocks, bonds, cost, earnings, expenses and organizations; with a sketch of their rise, progress, influence, &c; together with an appendix, containing an analysis of the debts of the United States, and of the several States; by Henry V. Poor. [1st]–27th annual number. N. Y., 1868–94 + 27 vols. O.

Railroad (The) age: an American journal devoted to every interest of American railroads. Vol. 1. no. 1–4, 8, 9, 11. Feb.–Dec. 1883. N.Y., 1883. 7 pts. F.

Railroad (The) and engineering journal. *See* American railroad journal.

Railroad (The) car journal. *See* **Journal** (The) of railroad car heating.

Railroad (The) employee: devoted to the interests of all classes of railroad men. Vol. 4. no. 12. Mar. 1895. Newark, N. J., 1895. F.

Railroad gazette: a journal of transportation, engineering and railroad news. 15th–38th year. Quarto vol. 3–26 + N. Y., Chicago, 1871–81; N. Y.. 1882–94 + 23 vols. F[4].

1871, A. N. Kellogg, proprietor; 1873–83, conducted by S. Wright Dunning and M. N. Forney. Lacking, vol 4

Railroad (The) question. No. 1–18. n. p., n. d., O.

Apparently published in San Francisco during 1883, in the interest of the Central and Southern Pacific railroads.

Railroad record, or, journal of commerce, banking, manufactures and statistics. Vol. 1. Mar. 1853–Feb. 1854. Cincinnati, O., 1854. sq. Q.

Railroad (The) telegrapher: official organ of the Order of Railroad Telegraphers of North America; J. T. R. Auston, editor and manager. Vol. 11 + Vinton, Ia., 1895 + O.

Railroad (The) trainmen's journal: official organ of the Brotherhood of Railroad Trainmen; [L. W. Rogers, editor, vol. 7; D. L. Cease, editor, vol. 9–11.] Vol. 7, 9–11 + Galesburg, Ill., 1890–94 + 4 vols. O.

Railroader (The): journal devoted to the interests of the railway service of the United States, the Canadas and Mexico. Vol. 10. no. 4. Apr. 1887. Washington and N. Y., 1887. F[4].

Railway (The) age. Vol. 1–17. Chicago, 1876–92. 15 vols. F[4].

Vol. 7–10. Railway (The) age: a weekly journal devoted to railway intelligence; construction, operation, management; editors, E. H. Talbott and H. R. Hobart. Continued as:

Railway (The) age and Northwestern railroader. Vol. 18–19 + Chicago, 1893–94 + 2 vols. F[4].

Railway (The) agent. *See* **Station** (The) agent.

Railway Association of America. Transactions at its third annual meeting, held in St. Louis, March 10th, 1875. St. Louis, 1875. O. p. 90.

"The objects and purposes of this Association shall be —1st. The improvement of railroad management, by fostering a study of its principles and details. 2nd. To collect and publish statistics, reports, and papers relating to railroad economy. 3rd. To establish a library, wherein shall be collected all published works and all accessible information concerning railroad management and the economic relations of railroads," etc.

Railway carmen's journal: official organ of the Brotherhood of Railway Carmen of America. Vol. 3. no. 25–33, 35; vol. 4. no. 1–3. Apr. 1893—June 1894. Minneapolis, Minn., 1893. Chicago, Ill., 1893–94. 13 nos. bd. in 1 vol. O.

Publication discontinued after June, 1894.

Railway (The) chronicle: journal of traffic, shares, engineering improvements, and all matters connected with railways. For 1844; Jan.–June, July–Dec.. 1845; Jan.–Dec., 1846; Jan.–June, July–Dec., 1847; 1848. [Vol. 1–7.] Lond., 1844–48. 7 vols. bd. in 6. Q.

Railway (The) conductor; published by the Order of Railway Conductors. Vol. 9–11 + Cedar Rapids, Ia., 1892–94 + 3 vols. O.

Railway (The) diary and officials' directory. 1895 + Lond., [1894.] O.

Railway (The) directory, for 1845: containing the names of the directors and principal officers of the railways in Great Britain; by H. Tuck. Lond., 1845. T.

Railway (The) engineer: an illustrated monthly review of the construction, machinery, and administration of railways; edited by S. R. Blundstone. Vol. 14–15 + Lond., 1893–94 + 2 vols. sq. F.

Railway engineering and mechanics. *See* **Railway** (The) purchasing agent.

Railway intelligence. No. 9–17: 31st Dec. 1856, Jan. 1859, '61, '63, '65, '67, '69, '71, '73; compiled by M. Slaughter. Lond., 1857–73. 9 vols. O.

Railway (The) magazine. May 1835—Feb. 1836. Lond., [1836.] O.

Continued as:

Railway (The) magazine, and annals of science: containing accounts of railways at home and abroad, notices of inventions, and scientific discoveries; by John Herapath. New series, vol. 1–6. Mar. 1836—Aug. 1836. Lond., 1836–39. 6 vols. O.

Continued as:

Herapath's railway and commercial journal. Quarto series, vol. 7, 8, 25–47, 55; 1845, '46, '63–'85, '93. Lond., 1845–93. 28 vols. Q.

Continued as.

Herapath's railway journal. Vol. 56. Lond., 1894. Q.

Railway (The) magazine: devoted to travel and transportation; editors and proprietors, George E. Allen & Co. Vol. 2. no. 1. Jan. 1886. Buffalo, N. Y., 1886. Q.

Railway (The) news and joint-stock journal. Vol. 1–31, 41, 57–62 +; 1864-79, '84, '92-94. Lond., 1864–94 + 38 vols. F.

Railway news: a national magazine of traveling literature, and practical information on transportation and commerce. Vol. 9. no. 6, 8; vol. 10. no. 4. Aug., Oct., 1889; June, 1890. N. Y., 1889–90. Q.

Railway (The) news-reporter. 10th year + Omaha, Neb., 1894 + F[6].

Railway (The) official gazette. No. 263–279 + Lond., 1892–94 + 3 vols. bd. in 2. F.

Railway (The) purchasing agent: devoted to the interests of the purchasing department of railways. Vol. 3–5. Chicago, 1880–82. 3 vols. F.
Continued as:

Railway (The) purchasing agent and supply trade journal. Vol. 6–8. Chicago, 1883–85. 3 vols. F.
Continued as:

Railway (The) master mechanic: devoted to motive power, equipment and machinery; [E. N. Lewis, manager, vol. 9–12; E. N. Lewis and W. D. Crosman, vol. 13–14; E. N. Lewis and W. H. Marshall, vol. 15–16.] Vol. 9–16. Chicago, 1886–93. 8 vols. F. and F^4.
Continued as:

Railway engineering and mechanics; E. N. Lewis and W. H. Marshall, managers. Vol. 17 + Chicago, 1894 + F^4

Railway (The) record; edited by John Robertson. Vol. 1–5. Lond., 1844–48. 5 vols. F.
Continued as:

Railway (The) record, mining register and joint-stock companies' reporter. Vol. 6–15. Lond., 1849–58. 10 vols. F.

Railway (The) register, *see* **St. Louis** railway register.

Railway (The) register and record of public enterprise for railways, mines, patents, inventions; edited by Hyde Clarke. Vol. 1–2. Lond., 1845. 2 vols. O.

Railway (The) review: a weekly newspaper for railwaymen. No. 197 + Lond., 1895 + sq. F^6.
Organ of the Amalgamated Society of Railway Servants.

Railway review, *see* **Chicago** railway review.

Railway (The) shareholder's manual; or, practical guide to the railways of Great Britain, [to all the railways in the world], completed, in progress and projected; by Henry Tuck. Lond., 1845–48. 7 vols. D.
1st, 3rd, 5th, 6th editions of 1845.

Railway (The) signal; or, lights along the line: a journal of evangelistic and temperance work on all railways; official organ of the Railway Mission. Vol. 13 + Lond., 1895 + Q.

Railway (The) surgeon; official journal of the National Association of Railway Surgeons. Vol. 1. June 1894–May 1895 + Chicago, 1895 + Q.

Railway (The) times. Vol. 5–22. Lond., 1842–59. 18 vols. bd. in 19. Q.
Continued as:

Railway (The) times and joint-stock chronicle. Vol. 23–55. Lond., 1860–89. 33 vols. bd. in 35. Q. and F.
Continued as:

Railway (The) times and tramway chronicle. Vol. 56–62. Lond., 1889–92. 7 vols. F.
Continued as:

Railway (The) times: railways, tramways, docks, canals, joint stock companies. Vol. 63–66 + Lond., 1893–94 + 4 vols. F.

Railway (The) times; published by the American Railway Union. Vol. 1 + Chicago, 1894 + F^6.

Railway (The) travellers' magazine: so arranged as to afford the readiest information for the tourist, as to places worth seeing, and the way to reach them. [No. 1.] August, 1849. Lond., 1849. S.

Railway (The) world illustrated: a monthly review of railway and tramway progress in steam, electric, cable & other traction. Vol. 4 + Lond., 1895 + F.

Railway world: in which is incorporated the United States railroad and mining register. Quarto vol. 21 + Philadelphia, Pa., 1895 + F.

Rand's repertory of official reports concerning railway securities. Vol. 1. no. 1. Apr. 1885. N. Y., 1885. O.
Continued as:

Rand's monthly repertory: railroad diary of official miscellany, stocks, bonds, etc. Vol. 2. No. 3. Mar. 1886. N. Y., 1886. O.

Revue générale des chemins de fer: mémoires et documents concernant l'établissement, la construction et l'exploitation technique et commerciale des voies ferrées. Tome 1–17 + Paris, 1878–91 + 17 vols. bd. in 21. F.

—— *Same.* Table générale méthodique des mémoires et documents techniques insérés 1er jan. 1884–31 déc. 1891. Table alphabétique par noms d'auteurs. Paris, 1892. F. pp. (1) + 64.

Revue pratique des chemins de fer: législation, jurisprudence; fondée et publiée par H. Huet-Desaunay. Année 1–3 + Paris, 1892–94 + 3 vols. O.

Rivista generale delle ferrovie e dei lavori pubblici: periodico settimanale; direttore G. Pini. Anno 11–12 + Firenze, 1893–94 + 2vols. F.

Roadmaster and foreman: the American railway track journal Vol. 9. no. 9. Jan. 1895 + Chicago, 1895 + F^4.

St. Louis railway register: a weekly journal devoted to railway, mining, and kindred interests. Vol. 8, no. 46; vol. 9, no. 1–9. St. Louis, 1883–84. F^4.
Continued as:

Railway (The) register: a weekly journal. Vol. 9. no. 10–17. St. Louis, 1884, F^4.
Continued as:

Railway (The) register: an intelligent advocate of railway interests. Vol. 11. no. 28–47; vol 16. no. 25–30; vol. 17. no. 30–38. St. Louis, 1886, '91–92. F^4.

Santa Fé (The) trail. Vol. 1. no. 1. Oct. 1880. Topeka, Kansas, 1880. F[5].
"Published for free distribution by the Atchison, Topeka & Santa Fé railroad."

Sechrist's hand-book and railway equipment and mileage guide: official guide of the Car Accountants' Association of the United States and Canada. Feb., Mar. 1886. Cleveland, O. 1886. F.

Station (The) agent: a monthly magazine devoted to the interests of ticket and freight agents and the traffic departments of the railway service; official organ of the Railway Agents' Association, the American Railroad Clerks' Association, the New England Railroad Agents' Association. Vol. 11. Mar.–Aug. 1894. Cleveland, O., 1894. O.
Continued as:

Railway (The) agent and station agent: a monthly magazine devoted to the interests of ticket and freight agents and the traffic departments of the railway service. Vol. 12. Sept. 1894–Feb. 1895 + Cleveland, O., 1895. + O.

Street-Railway (The) Association of the State of New York. Report of annual meeting 1st–11th. 1883/84–1893/94. Brooklyn, N. Y., [1884–94?] 11 vols. bd. in 1. O.

Taschen-Kalender fur Eisenbahn-Stations-und -Expeditions-Beamte im deutschen Reich auf das Jahr 1888; von Carl Flister. 5 Jahrgang. Berlin, [1887]. nar. S.

Trackmen's journal: official organ of the Brotherhood of Railroad Trackmen. Vol. 4. no. 8, 9. May, June 1894. Battle Creek, Mich., 1894. O.

Train Dispatchers' Association of America. Proceedings of the 5th–7th annual convention, held at New Orleans, La., June 14–17, 1892; Salt Lake City, Utah, June 18–20, 1893; Chicago, June 12–13, 1894. Winona, Minn., 1892; Chicago, 1895. 2 vols. bd. in 1. O. and D.

Travelers' official railway guide for the United States and Canada: containing railway time schedules, connections, and distances; compiled and edited by W. F. Allen, under the auspices of the General Ticket Agents' Association. [The American Association of General Passenger and Ticket Agents.] Jan. 1874–Dec. 1894 + N. Y., 1874–94 + 247 nos. bd. in 89 vols.
Lacking nos. June 1876; May 1879; Mar. 1884; Nov. 1886; Mar. 1889.

Traveling Engineers' Association. Report of proceedings of the 1st–2nd annual convention, held at Chicago, Ills., Sept. 12–14, 1893; Denver, Colo., Sept. 11–14, 1894; edited by W. O. Thompson, secretary. Elkhart, Ind., 1893–94. 2 vols. bd. in 1. O.

Union Pacific employes' magazine. Vol. 1. Feb. 1886–Jan. 1887 — vol. 9. Feb.–Oct. 1894. [Denver, Colo., 1887–94.] 9 vols. O.
Property and organ of District Assembly 82, Knights of Labor. Ceased publication, Oct. 1894.

United States—*Department of State.* Reports from the consuls of the United States. Vol. 1–42. Washington, 1880–93. 42 vols. O.
Continued as:

—— Consular reports. Vol. 43–46 + Washington, 1893–94 + 4 vols. O.
Every volume contains numerous reports by consuls on foreign railways.

Weekly railway traffics. Second half-year, 1894. [Lond., 1894.] sq. Tt.
Issued by John Shaw, stock and share dealer, London.

White's reference book of railroad securities. Jan. 1895; compiled from official sources. N. Y., [1895.] obl. T.

Zeitschrift für Bauwesen; herausgegeben im Ministerium der öffentlichen Arbeiten. Jahrgang 42–44 + Berlin, 1892–94 + 3 vols. F[4], and *Atlas*, 3 vols. F[5].

Zeitschrift fur Eisenbahnen und Dampfschiffahrt der österreichisch-ungarischen Monarchie. Begründer: Lorenz v. Stein. Redacteur: Sig. Sonnenschein. 5–7 + Jahrgang. Wien, Pest, Leipzig, 1892–94 + 3 vols. Q.

Zeitschrift für Kleinbahnen; herausgegeben im Ministerium der öffentlichen Arbeiten. Jahrgang 1 + Berlin, 1894 + Q.

Zeitschrift für Lokomotivführer: Organ des Vereins und der Hulfskasse deutscher Lokomotivfuhrer; herausgegeben von Wilhelm Maass. Bd. 10–11 + Hannover, 1892–93, '94 + O.

Zeitschrift für Transportwesen und Strassenbau: Organ zur Hebung einerseits des Secundär-, Tertiär-und Trambahnwesens, andererseits des Strassenbaues, der Strassenunterhaltung. Jahrgang 9–11 + Berlin, 1892–94 + 3 vols. F.

Zeitung des Vereins Deutscher Eisenbahn-Verwaltungen: Organ des Vereins. Jahrgang 1–34 + Berlin, 1861–94 + 34 vols. F.

Dictionaries.

Costruzione ed esercizio delle strade ferrate e delle tramvie. Torino, 1887–94. F.
In progress. "Indice alfabetico"—dictionary of terms used, English, French, German, Italian, appended to most of the completed chapters.

Eger, G. Technological dictionary in the English and German languages: containing the terms and locutions employed in architecture; ship-building; construction of railways, roads and bridges; [&c.] Technically revised and enlarged by Otto Brandes. [*German title:*] Technologisches Wörterbuch in englischer und deutscher Sprache: die Wörter und Ausdrucksweisen in Civil- und Militär-Baukunst; Schiffsbau; Eisenbahnbau; [&c.] Brunswick, 1882–84. 2 vols. O. pp viii + 711; (3) + 970.
Contents:—**1.** English-German.—**2.** German-English.

Hirche, P. Systematische Sammlung der Fachausdrücke des Eisenbahnwesens. Deutsch und italienisch: 1. Der Personen- und Güterdienst nebst alphabetischem Waarenverzeichniss. [*Italian title:*] Vocabolario ferroviario sistematico. Tedesco-italiano: I. Il servizio dei viaggiatori e delle merci corredato da una nomenclatura alfabetica delle merci. Wiesbaden, 1890. S. pp. xliii + 471.

Contents:—Systematischer Theil. pp. 1-114.—Alphabetischer Theil: Deutsch-italienisch, pp. 115-322. Italiano-tedesco, pp. 323-467.

—— Systematische Sammlung der Fachausdrücke des Eisenbahnwesens. Französisch und Deutsch: 1. Der Personen- und Güter-dienst nebst alphabetischem Waarenverzeichniss. [*French title:*] Vocabulaire systématique des termes usités au service des chemins de fer. Français et allemand. 1. Le service des voyageurs et des marchandises. 2e, neu bearbeitete Auflage. Berlin, 1886. S. pp. (2) + xl + 448.

Röhrig E. Technologisches Wörterbuch: Deutsch-Englisch-Französisch: Gewerbe; civil- & militär-Baukunst; Eisenbahnwesen; [&c.] [*English title:*] Technological dictionary: English-German-French: of the terms employed in the arts and sciences; civil engineering including bridge-building; road and railway making; [&c.] [*French title:*] Dictionnaire technologique: Français-Allemand-Anglais: contenant les termes techniques employés dans les arts et métiers; l'architecture civil; les ponts et chaussées et les chemins de fer; [&c.] 4e verbesserte und bedeutend vermehrte Auflage. Wiesbaden, 1887-91. 3 vols. O. pp. xii + 879 + (1); xii + 909; (9) + 783 + (1).

Contents: **1.** German-English-French.—**2.** English-German-French.—**3.** French-German-English.

Vol. 3. is "3e verbesserte und bedeutend vermehrte Auflage," 1887; vol. 2. "herausgegeben von E. Dill, E. von Hoyer und E. Rohrig."

Saccomani, G. Terminologia ferroviaria: manuale pratico delle denominazioni e dizioni componenti lo scibile delle strade ferrate italiane. 2ª ed. Caserta, 1890. O. pp. v. + (2) + 176.

Fiction and Verse.

Fernon, T. S. Hints and facts for railway investors: lines suggested on supposing Mr. George W. Cass, president of the Northern Pacific railroad — Arctic line — astride the "Elephant's Back," in the National Park, at the head of the Yellowstone, (see N. P. R. R. map), ruminating (sotto voce) on "The Texas and Pacific railway" considered as Mr. T. A. Scott's Aztec route to a nomination for president of the United States. n. t. p. [Philadelphia? 1874?] O. pp. 16. P. 44.

Frith, H. The biography of a locomotive engine. Lond., Paris & Melbourne, 1891. D. pp. vi + (1) + 9-254. 8 *plates.*

Hue, F. Les voleurs de locomotives: grand roman d'aventures. Paris, 1894. Q. pp. (3) + 7-318. 33 *cts.*, 10 *plates.*

"Épisode de la guerre de sécession d'Amerique," 1e éd., 1886.

Jerram, *Mrs.* Mamma's stories. Lond., [1845?] sq. T. pp. 79. 3 *cts.*

"Railways," pp. 68-70.

Newman, J. Queer scenes of railway life: being narratives of some comical and strange incidents. Lond., 1889. S. pp. (3) + vii-xi + 124.

Nye, E. W., *and* **Riley, J. W.** Nye and Riley's railway guide. Chicago, N. Y., San Francisco, 1888. O. pp. (7) + 202. 78 *cts.*

Oliphant, *Mrs.* **M. O. W.** The railway man and his children. Lond., N. Y., 1892. D. pp. (3) + 398.

Petibon, L. Les mariages en chemin de fer: le mariage de la Petite Providence. Paris, 1894. O. pp. 194. 16 *plates.*

Railroad eclogues. Lond., 1845. D. pp. (2) + 5-36.

Railway (The) meeting: a satire. Dedicated to the pillaged and plundered shareholders of Great Britain; by a Lancashire Victim. Lond., 1856. D. pp. (4) + 137.

In verse.

Reminiscences of railway making; rhymes, etc. Lond., 1845. O. pp. iv + (4) + 122 + (1).

Reprints pp. 71-115: "An address to the inhabitants of the Eastern Counties of England on the adaptation of the modern railway to the development of the resources of a country. [n.p.] 1839."

In verse.

[Reynolds, M.] Real railway anecdotes, from all sources. Manchester and Lond., [1893]. D. pp. (2) + 5-128. 6 *cts.*

[Rossendale, A.] Mr. Julep Judkins's first journey by rail from "Home, sweet home." Birmingham, 1870. D. pp. (4) + 17, 2 *cts.*

Sitwell, *Mrs.* **I.** A railway garden. Lond., Brighton, N. Y., 1887. S. pp. (1) + 5-159. *frontisp.*

Stories of the railway. N.Y., 1893. T. pp. (6) + 11-195. 23 *cts.* (Stories from *Scribner.*)

Contents:—**Hibbard, G. A.** "As the sparks fly upward."—**Davison, C. S.** How I sent my aunt to Baltimore: a true story.—**Page, T. N.** "Run to seed."—**Gordon, A. C.** Flandroe's mogul.

Reprinted from *Scribner's Magazine,* vol. 8. p. 721; vol. 12. p. 249; vol. 10. p. 367; vol. 2. p. 361.

Taylor, J. A fast life on the modern highway: being a glance into the railroad world from a new point of view. N. Y., 1874. D. pp. (3) + 7-220. 23 *cts.*, 10 *plates.*

[Yonge, C. M.] The railroad children; by

the author of "The heir of Redclyffe." 12th ed. Lond., 1886. T. pp. 78.

"Reprinted from *The magazine for the young.*"

Zola, É. La bête humaine. 45e mille. Paris, 1890. D. pp. (2) + 415. (Les Rougon-Macquart, histoire naturelle et sociale d'une famille sous le second Empire. vol. 17.)

General.

Andree, R., *and others.* Der Weltverkehr und seine Mittel: Rundschau uber Schiffahrt und Welthandel. Industrie-Ausstellungen und die Wiener Weltausstellung im Jahre 1873. 2e vollständig umgearbeitete Auflage. Leipzig und Berlin, 1875. sq. Q. pp. vii + (1) + 732. 353 *figs.*, 13 *plates*, 1 *fold. map.*

Von Richard Andree, Julius Engelmann, Albert Schück und Julius Zöllner.

Ergänzungsband zu: Das Buch der Erfindungen, Gewerbe und Industrien; 6 umgearb. Aufl. Leipzig, 1871-74. 7 vols.

Baclé, L. L. La mécanique moderne: les voies ferrées. Paris, 1882. O. pp. vii + 322. 143 *figs.*, 4 *fold. plates.* (Bibliothèque de la nature.)

Contents:—L'histoire.—La route métallique.—Le moteur mécanique.—Les trains en marche.—Les chemins de fer dans les montagnes.—Les voies ferrées dans les villes.

Barry, J. W. Railway appliances: a description of details of railway construction subsequent to the completion of the earthworks and structures, including a short notice of railway rolling stock. Lond., 1876. D. pp. xiii + (1) + 299. 207 *figs.*

Contents:—Acts of Parliament affecting railways.—Permanent way.—Points and crossings.—Signals.—The block system.—Stations.—Rolling stock.

—— *Same.* 6th ed. with an appendix. Lond., 1890. D. pp. xiii + 331. 218 *figs.*

—— *and* **Bramwell,** *Sir* **F. J.** Railways and locomotives: lectures delivered at the School of Military Engineering at Chatham in 1877. Lond., 1882. O. pp. ix + (1) + 427. 228 *figs.*

Benoit-Duportail, A. C., *and others.* Étude sur l'exploitation, la construction et l'entretien des chemins de fer: matériel fixe et roulant, signaux, &c. Paris, 1878. Q. pp. x + (2) + 144. 25 *figs.*, 14 *fold. plates* 2 *fold. tables.*

Contents:—**Benoit-Duportail, A. C.,** *and* **Morandière, J.** Voitures et wagons.—**Sambuc, J.** De la voie des chemins de fer à l'Exposition de 1867.—**Morandière, J.** Matériel fixe des chemins de fer.—**Soulié, E.** Le locomoteur funiculaire, système Agudio.

Biot, E. L' architetto delle strade ferrate: ovvero saggio sui principi generali dell' arte di formare le strade a ruotaje di ferro; recato in Italiano con note ed aggiunte dall' ing. Luigi Tatti. Unitavi una memoria di Davide Hansemann relativa ai rapporti politici ed economici di questa specie di strade. Milano, 1837. sq. Q. pp. (2) + v-viii + 371 + (1). 5 *fold. plates.* (Scelta biblioteca dell' ingegnere civile, vol. 16.)

Contents:—**I.** Materiali constituenti una strada ferrata.—Motori adoperati sulle strade ferrate.—Considerazioni generali sulle strade ferrate.—Appendici. Descrizione di una macchina locomotrice.—Paragone delle rendite e delle spese delle tre strade ferrate di Liverpool, di Lione, e di Budweis.—Elenco delle principali strade ferrate costrutte, od in costruzione in Europa ed in America.—Elenco delle migliori opere che trattano delle strade ferrate. **II. Hansemann, D.** Le strade ferrate e i loro imprenditori considerati nei rapporti colla pubblica amministrazione. 1. Prodotti, o vantaggi delle strade ferrate.—2. Valore delle strade ferrate in relazione all' economia politica dello stato.—3. Costruzione delle strade ferrate per società private.

Biot's Manuel du constructeur de chemins de fer, of which the above is a translation, was published Bruxelles, 1832; and Paris, 1834.

Bricka, C. Cours de chemins de fer, professé à l' Ecole nationale des Ponts et Chaussées. Paris, 1894. 2 vols. O. pp. viii + 634. 327 *figs*; pp. (3) + 709. 464 *figs.*

Contents:—**1.** Études préalables.—Etudes définitives.—Construction.—Batiments.—Présentation des projets.—Voie proprement dite.—Appareils de voie.—Signaux et enclenchements.—Prix des principaux appareils de voie.—Entretien et surveillance.—Annexes.—**2.** Matériel roulant.—Résistance des trains à la traction.—Marche des trains.—Freins.—Installations nécessaires pour les services de traction.—Exploitation technique: mouvement.—Aménagement des gares, stations et dépendances.—Organization des gares et bifurcations au point de vue de la sécurité.—Accidents.—Exploitation commerciale.—Dépenses de construction des chemins de fer.—Dépenses d' exploitation.—Régime des concessions.—Chemins de fer de systèmes divers.—Annexes.

Cantalupi, A. Le strade ferrate considerate nei rapporti tecnici, amministrativi e commerciali. Milano, 1857-58. 2 vols. Q. pp. 559. 125 *figs.*, 1 *plate*, 2 *fold. plates*; pp. 651. 197 *figs.*, 1 *plate.* (Nuova biblioteca dell' ingegnere-architetto civile, vol. 8-9.)

"Lavoro dell' ing. A. Cantalupi, compilato sulle opere di Biot, Polonceau, Perdonnet, Michel Chevalier, Seguin, Minard, Coupray, Teisserenc, Brecs, *Journal des chemins de fer*, ecc."

Chicago—*World's Columbian Exposition.* 1893. Classification of Department of transportation exhibits: railways, vessels, vehicles. Chicago, [1892?]. O. pp. 24. 2 *fold. plans.* P. 37.

—— Official catalogue; edited by the Department of publicity and promotion. Chicago, 1893. 19 pts. in 1 vol. O.

Pt. 7. Dept. G. Transportation exhibits. pp. 63. 2 *plans.*

—— Suggestions for exhibits by railway companies. Chicago, [1892?]. O. pp. (7). P. 37.

—— —*World's Congress Auxiliary.* Addresses delivered before the World's Railway Commerce Congress, held in Chicago, Ill., June 19-23, 1893: official report. Chicago, 1893. O. pp. v + 265.

Contents:—Introduction.—**Blanchard, G R.** Preliminary address.—I. Law and Legislation: **Dillon, J. F.** Constitutional guarantees of railway properties and franchises against legislative spoliation.—**Veazey, W. G.** The proper protection of the public rights and interests involved in railway commerce.—**Ripley, E. P.** The pro-

tection of private rights involved in railway commerce. —**Knapp, M. A.** Principles of railway legislation.—**Cary, J. W.** Governmental regulation of transportation and its practical effect.—**Safford, A. G.** The statutory regulation of transportation and its results.—**Kirkman, M. M.** Economic laws governing railway operations. II. MANAGEMENT AND OPERATION: **Walker, A. F.** The effect of competition upon railway construction and operation.—**Meddaugh, E. W.** Railway strikes: what should be done in the way of prevention and control.—**Haines, H. S.** Railway accidents: their causes and the practical safeguards against them.—**Blanchard, G. R.** International and interstate railway arrangements.—**Curtis, W. E.** The American Inter-continental railway.—**Kirkman, M. M.** Baggage.—**Heafford, G. H.** Passenger tickets.—**Richards, R. C.** Police powers of railway train officials.—**Porter, H.** Safety devices applied to railway cars.—**Soper, A. W.** Railway safety appliances in the United States.—III. EMPLOYÉS: **Seargeant, L. J.** Superannuation of railway employés.—**Coffin, L. S.** Appliances for the safety of railway employés.—**Wade, K. H.** Railway employés: what shall be done for their protection and improvement.—**Barr, S. R.** Protection and improvement of railway employés.—**Smith, R. F.** Relief of railway employés.—IV. HISTORY AND DEVELOPMENT: **Nimmo, J.** *jr.* The evolution of the American railway system.—**Neele, G. P.** The influence of railways on the settlement and development of new countries.—**Morrison, J.** Influence of railways in Spain.—**Caselli, R. P.** The railways of Italy.—**Welin, G.** The railways of Sweden.—**Renwick, A.** The railway system of New South Wales.

Clarke, R. Y., *editor.* Railway appliances in the nineteenth century. 3d ed. Lond., 1850. S. pp. (5) + 60 + 77 + 84. 40 *figs.*, 9 *plates.*

Contents: — The railway. — The steam engine. — The electric telegraph.

Colburn, Z. *and* **Holley, A. L.** The permanent way and coal-burning locomotive boilers of European railways; with a comparison of the working economy of European and American lines, and the principles upon which improvement must proceed. N.Y., 1858. F[4]. pp. xxiii + 168. 50 *plates*, 1 *map.*

Compendium of transportation theories: a compilation of essays upon transportation subjects. Washington, D. C., 1893. O. pp. (4) + 7–295. (Kensington series. First book. Publication of series under direction of C. C. McCain.)

Contents. — 1. **Cooley, T. M.** The railroad problem defined.—2. **Schoonmaker, A.** The railroad malady and its treatment.—3. **Potts, J. D.** The railroad problem —4. **Cullom, S. M.** The public and the railways. —5. **Firth, F. J.** The railroads and the public.—6. **Stickney, A. B.** The future of the railroad problem.—7. **Schoonmaker, A.** Unity of railways and railway interests.—8. **Nimmo, J.** *jr.* The American railroad system.—9. **Cullom, S. M.** Federal regulation of commerce.—10. **Blanchard, G. R.** Federal regulation of commerce: a reply.—11. **Schoonmaker, A.** Limitations upon railway powers.—12. **Dabney, W. D.** Railway legislation.—13. **Walker, A. F.** Amendment of the Interstate Commerce Law.—14. **Swayne, W.** Legal aspects of railroad strikes.—15. **Adams, H. C.** Services of a Bureau of Railway Statistics.—16. **Acworth, W. M.** English and American railways.—17. **Voorhees, T.** High speed railroad travel.—18. **Raymond, A. C.** Relations between Canadian and American railways.—19. **Nimmo, J.** *jr.* Some characteristics of the American railway system.—20. **McCain, C. C.** Development of railway freight classifications.—21. **Adams, C. F.** The Interstate Commerce Law.—22. **Knapp, M. A.** Discrimination by railways.—23. **Schoonmaker, A.** Discriminations from the use of private cars of shippers.—24. **Alexander, E. P.** Long versus short haul.—25. **Adams, B. B.** Treatment of railway employees.—26. **Sawyer, N.** Brotherhood of Engineers.—27. **Peabody, J.** The necessity of railway compacts under governmental regulation.—28. **Nimmo, J.** *jr.* Apportionment of traffic — 29. **Cooley, T. M.** Popular and legal view of traffic pooling.—30. **Cooley, T. M.** Pooling and combinations. —31. **Huntington, C. P.** A plea for railway consolidation.—32. **Alexander, E. P.** Railroad consolidation.—33. **Acworth, W. M.** Government interference in English railway management.—34. **Walker, A. F.** Railway associations.

Costruzione ed esercizio delle strade ferrate e delle tramvie; norme pratiche dettate da una eletta di ingegneri specialisti. Torino, 1887–1894. F.

In progress. Bibliography and glossary of terms appended to most of the completed chapters.

Contents:—**I. c. 4. Colombo, E.,** *and* **Solerti, A.** Costruzione della sede stradale. 1894. pp. (1)-136. 3 *figs.*, 2 *plates*, 5 *fold. plates.* In progress.—**c. 5–7. Solerti, A.** Gallerie. 1889-92. pp. (1)-386. 645 *figs.*, 9 *plates*, 26 *fold. plates.*—**c. 8. Pozzi, L.** Ponti e viadotti in muratura. 1888-92. pp. (1)-299. 283 *figs.*, 38 *plates*, 10 *fold. plates.*

II. c. 1. Fadda, S. Caselli, fermati, stazioni secondarie, stazione primarie. 1893-94. pp. (1) + 91. 142 *figs.*, 2 *plates*, 14 *fold. plates.*—**c. 2. Fadda, S.** Tettoie. 1891. pp. 39. 54 *figs.*, 8 *plates*, 5 *fold. plates.*—**c. 3. Fadda, S.** Disposizione d'insieme delle stazioni primarie e fabbricati annessi. 1894. pp. (1) + 55. 113 *figs.*, 5 *plates*, 7 *fold. plates.*—**c. 6.** [Dispositi di locomotive.] 1892. 1 *fold. plate.* In progress.—**c. 7.** [Refornitori.] 1891. 1 *plate*, 1 *fold. plate.* In progress.—**c. 8[2]. Roda, Cav. G.** Le piantagioni ed i ripari nelle costruzioni ferroviarie. 1894. pp. (1) + 115. 106 *figs.*, 8 *plates.*

III. c. 2. Oppizzi, P. Telaio della locomotiva boccole molle. 1890-91. pp. (1) + 55. 105 *figs.*, 1 *plate*, 6 *fold. plates.*—**c. 2[2]. Biglia, F.** Assi, ruote e cerchioni per locomotive. 1893. pp. (1) + 63. 116 *figs.*, 6 *fold. plates.*—**c. 5. Oppizzi, P.** Apparecchi di attacco e di repulsione. 1889. pp. (1) + 80. 146 *figs.*, 8 *plates*, 8 *fold. plates.*—**c. 6. Oppizzi, P.** Caldaia. 1888. pp. (1) + 116. 169 *figs.*, 6 *fold. plates.*—**c. 14. Biglia, F.** Assi, ruote, e cerchioni per veicoli. 1893. pp. (1) + 120. 215 *figs.*, 7 *fold. plates.*—**c. 21. Vevole, P.** Illuminazione, riscaldamento e ventilazione dei convogli. 1892-94. pp. (1) + 112. 218 *figs.*, 2 *plates*, 17 *fold. plates.* In progress.—**c. 23. Randone, G. F.** Impiego delle ferrovie pel trasporto dei malati e feriti in guerra: treni sanitari. 1889. pp. (1) + 56. 52 *figs.*, 5 *plates.*—**c. 25. Randone, G. F.** Disinfezione dei veicoli ferroviari. 1890. pp. (1) + 24. 3 *figs.*

IV. c. 1. Lampugnani, G. Costituzione generale dell' amministrazione ferroviaria. 1887. pp. (1) + 51. 2 *fold. maps.*—**c. 5. Fadda, S.** Tecnologia speciale dei tubi bollitori, tubi in rame. 1887. pp. (1) + 60. 141 *figs.*, 2 *plates*, 1 *fold. plate.*—**c. 6. Biglia, F.** Tecnologia speciale delle riparazioni degli assi delle ruote e dei cerchioni. 1889-93. pp. (1)+ 180. 397 *figs.*, 2 *plates*, 4 *fold. plates.*—**c. 8. Fadda, S.** Tecnologia della tempera, norme pratiche, utensili, modo con cui deve funzionare l' officina utensili. 1888. pp. (1) + 80. 106 *figs.*—**c. 9. Pagliani, S.** Tecnologia speciale per la riparazioni e prova dei manometri e delle bilancie per valvole di sicurezza. 1890. pp. (1) + 27. 60 *figs.*, 3 *plates.*—**c. 10. Fadda, S.** Tecnologia speciale delle tornerla. 1888-92? pp. (1) + 199. 469 *figs.*, 19 *fold. plates.*—**c. 13. Oppizzi, P.** Tecnologia speciale del lattaio o lampista. 1890. pp. (1) + 107 + 4. 237 *figs.*, 9 *plates*, 1 *fold. plate.*—**c. 15. Luca, F. de.** Tecnologia speciale della fonderia della ghisa e del bronzo per i lavori delle strade ferrate. 1889. pp. (1) + 156. 150 *figs.* 6 *plates*, 27 *fold. plates.*—**c. 22. Randone, G. F.** Norme pratiche per le prime cure da prestarsi ai feriti negli scontri, nelle officine e nelle stazioni. 1890. pp. (1) + 108. 117 *figs*, 1 *plate.*—**c. 28. Randone, G. F.** Norme pratiche di igiene ferroviaria. 1894. pp. (1) + 38. 10 *figs.*, 1 *fold. map.*

V. c. 1. Galimberti, A. Considerazioni generali sulle tramvie, leggi amministrative che ne regolano la costruzione, norme per ottenere la concessione. 1887. pp. (1) + 23.—**c. 2. Galimberti, A.** Tramvie a cavalli, costruzione dell' armamento, tipi diversi, scambi fissi, scambi mobili, stazioni, rimesse, scuderie, norme per la loro costruzione e manutenzione esempi pratici. 1888. pp. 72. 116 *figs.*, 6 *fold plates.* In progress.—**c. 3.** [Veicoli per tramvie a cavalli.] 1889. 4 *fold. plates.* In progress.—**c. 11. Polese, L.** Considerazioni generali sulle ferrovie secondarie ed economiche. 1889-92. pp. (1) + 81. 20 *figs.* —**c. 12. Polese, L.** Esempi, di tracciato di ferrovie economiche. 1892. pp. 83-232. *figs.* 21-228, 6 *plates*, 11 *fold. plates.* In progress.—**c. 13.** [Ferrovie secondarie ed economiche: armamento, veicoli, locomotive.] 1891-94. 1 *plate*, 5 *fold. plates.* In progress.—**c. 15-18. Fadda, S.** Tramvie e ferrovie speciali. 1892-94. pp. (1) + 40. 98 *figs.*; pp. 41-147. *figs.* 99-322. 1 *plate*, 14 *fold. plates;* pp. (1) + 39. 54 *figs.*, 3 *plates*, 8 *fold. plates*, 1 *fold. map;* pp. (1) + 51. 112 *figs.*, 2 *plates*, 3 *fold. plates.*—**c. 20.** *Same:* Cenni sui sistemi di ferrovie speciali applicati, tentati, o solo progettati. Ferrovie pel trasporto delle navi, navi pel trasporto dei treni, ferrovie forestali. 1891. pp. (1) + 59. 85 *figs.*, 4 *fold. plates.*

Couche, C. Voie, matériel roulant et exploitation technique des chemins de fer; suivi d' un appendice sur les travaux d' art. Paris, 1867–76. 3 vols. O., and 3 *Atlases* obl. Q. pp. (2) +525 + (1), and *Atlas of* 35 *plates;* pp. (2) + 883 + (1), and *Atlas of* 109 *plates;* pp. xvi + 966 and *Atlas of* 21 *plates.*

Contents:—Voie.—Matériel de transport.—Traction.—Production et distribution de la vapeur.—Moyens de détruire la vitesse et de la modérer sur les pentes.—Résistance des trains.—Puissance et effet utile de la locomotive. —Supplément.

—— *Same, English.* Permanent way, rolling stock and technical working of railways; translated by J. N. Shoolbred [vol. 2 and 3 translated by J. É. Wilson.] Lond., and Paris, 1877–82. 3 vols. F., and 3 *Atlases* obl. F. & obl. Q. pp. (2) + v–xiii + 553, and *Atlas of* 38 *plates;* pp. (2) + vi + 812, and *Atlas of* 59 *plates;* pp. (2) + 839, and *Atlas of* 21 *plates.*

Debauve, A. Manuel de l' ingénieur des ponts et chausées: 13e fascicule: Chemins de fer. Paris, 1874. O. pp. (4) + 225 + (2) and *Atlas* sq. F. pp. (3) + 19 *plates.*

Contents:—Historique.—Dispositions générales du matériel roulant et de la voie.—De la voie.—Du moteur et du matériel roulant.—Gares et stations, entretien, exploitation. —Considérations économiques.

Deniel, P. De la construction et de l' exploitation des chemins de fer en France. Paris and Troyes, 1845. O. pp. (2) + 271.

Contents:—Résumé historique.—État actuel de l' industrie des chemins de fer.—Des perfectionnements à introduire dans la construction et dans l' exploitation des chemins de fer.

Dorsey, E. B. English and American railroads compared. N. Y., 1886. O. pp. 78. 4 *fold. plates*, 10 *fold. tables.*

Extracted from *American Society of Civil Engineers. Transactions*, vol. xv. Jan. 1886.

—— *Same.* Supplementary paper. N. Y., 1886. O. pp. (58). 1 *fold. table.*

Extracted from same, vol. xv. Nov., 1886.

—— *Same.* N. Y., 1887. O. pp. (4) + 142. 4 *fold. plates*, 12 *fold. tables.*

"With discussion by W. W. Evans, T. C. Clarke, E. P. North." Reprinted from same, vol. xv. Jan.-Nov., 1886.

—— *Same.* 2nd ed. N. Y., 1887. O. pp. (4) + 142. 4 *fold. plates*, 12 *fold. tables.*

Foreign railways of the world: containing the names of officers, length, capital, cost of construction, materials, rolling stock, earnings, cost of operation, character of road bed, curves, grades, and other information regarding foreign railways and their operation. Vol. 1. St. Louis, Mo., 1884. O. pp. 480.

No more published.

Gossin, H. Les chemins de fer. Paris, [1889]. Q. pp. (2) + 480. 155 *figs.* (Collection Picard: bibliothèque scientifique et industrielle,)

Great Britain—*Patent Office.* Patents for inventions: abridgements of specifications relating to railways: 1803–1866. 2nd ed. Lond., 1873. D. pp. xxxiii + (1) + 673 + (2).

—— *Same.* 1867–1876. Lond., 1884. D. pp. xix + 1308.

Grille,— Les chemins de fer à l' Exposition de Chicago. Paris, 1894–95. 2 vols. Q. and 2 *Atlases* sq. F[t]. pp. (2) + 148. 36 *figs.*, 3 *fold. tables*, and *Atlas of* 95 *plates;* pp. (2) + 188. 13 *plates*, and *Atlas of* 144 *plates.*

Contents:—**1.** Les locomotives.—**2.** Voies, signaux, matériel roulant et tramways.

Vol. 1. "Avec la collaboration de M. Laborde."

"*Revue technique de l' Exposition universelle de Chicago en* 1893; par Grille et H. Falconnet. 9e partie. Organe des Congrès internationaux tenus à Chicago en 1893 sous la présidence de O. Chanute et E. L. Corthell."

Guillemin, A. Les chemins de fer. 7e éd. Paris, 1884. 2 vols. D. pp. (3) + 327. 96 *figs.*; pp. (2)+ 379. 76 *figs.* (Bibliothèque des merveilles.)

Contents:—Introduction.—La voie.—Les ouvrages d'art, tunnels et viaducs.—Réfection de la voie, les rails.—Les Gares.—La locomotive.—Matériel roulant, voitures et wagons.—Systèmes spéciaux de chemins de fer, tramways. —L'exploitation.

Hamilton, W. G., *compiler.* Useful information for railway men; compiled for the Ramapo Wheel and Foundry Co. 8th ed. revised and enlarged. N. Y., 1880. obl. Fe. pp. 577. 175 *figs.*

—— Same. 9th ed., revised and enlarged. N. Y., 1885. obl. Fe. pp, 577. 175 *figs.*

Handbuch des Eisenbahnwesens in ökonomischer, rechtlicher, administrativer und technischer Beziehung. Stuttgart, 1875. 5 vols. bd. in 3. O. pp. vi + 330; pp. xviii + 400. 81 *figs*; pp. viii + 199; pp. viii + 373; pp. vii + 978. 45 *figs.*, 1 *fold. table.*

Contents:—**1. Haushofer, M.** Grundzüge des Eisenbahnwesens.—**2. Paulus, R.** Bau und Ausrüstung der Eisenbahnen. 2e neubearb. Auflage.—**3. Schmidt, L.** Die Verwaltung der Eisenbahnen und die Buchführung im Eisenbahnbetrieb.—**4. Haushofer, M.** Eisenbahngeographie.—**5. Rohr, W.** Handbuch des practischen Eisenbahndienstes. Wohlfeile Ausgabe.

Vol. 2. Berlin, [1881.]

Haswell, C. H. Engineers' and mechanics' pocket-book. 44th ed., revised and enlarged. N. Y., 1883. S. pp. xv + 16–674. 271 *figs.*
"Railways and Roads," pp. 549–553 and *passim.*

Haupt, L. M. Special report on railway plant. Washington, 1891. O. pp. (110). 78 *figs.*, 2 *fold. tables.*
Contents:—Installation.—Description of typical exhibits.—The permanent way.—Block signals.—Electric motors.—American road machines.
Extracted from **United States**—*Department of State.* Report of the U. S. Commissioners to the Universal Exposition of 1889 at Paris, vol. 3. pp. 433–542.

Hebert, L. A practical treatise on railroads and locomotive engines, for the use of engineers, mechanics and others: in which the mechanical construction of edge, tram, suspension and all other railways, and the various locomotive carriages designed for rail and common roads, are described in chronological order. Lond., 1837. O. pp. 216. 220 *figs.*, 1 *fold. plate.*

Heusinger von Waldegg, E., *editor.* Handbuch fur specielle Eisenbahn-Technik. Leipzig, 1874–82. 5 vols. and 5 *Atlases.* Q. pp. xxiv + 998. 330 *figs.* and *Atlas* of pp. x + 63 *plates;* pp. xvi + 656. 296 *figs.* and *Atlas* of pp. viii + 55 *plates;* pp. xii + (1) + 1244. 565 *figs.* and *Atlas of* pp. (2) + v–xvi + 74 *plates;* pp. xx + 727 + 68. 180 *figs.* and *Atlas of* pp. x + 55 *plates;* pp. xii + 660. 204 *figs.* and *Atlas of* pp. xiv + 99 *plates.*

Contents:—I. Der Eisenbahnbau: 1. **Weber, M. M. von.** Einleitung.—2. **Sonne, E.** Voruntersuchungen; verschiedene Arten von Eisenbahnen; Eigenthumlichkeit der Eisenbahnfahrzeuge.—3. **Meyer, E.** Herstellung der Erdkörper.—4. **Paulus, R.** Material und Fabrikation der Schienen; Probiren und Abnahme der Schienen.—5. **Baumeister, R.** Conserviren der Schwellen.—6. **Heusinger von Waldegg, E.** Eisenbahn-Oberbau.—7. **Winkler, E.** Festigkeitstheorie der Schienen.—8. **Sonne, E.** Bettung, Legung des Oberbaues, Oberbau-Geräthe.—9. **Sonne, E.** Ausweichungen und Gleiskreuzungen.—10. **Osthoff, G.** Uebergangswerke; Abtheilungszeichen; Einfriedigungen der Bahnlinie.—11. **Osthoff, G.** Construction von Wegbrucken über der Bahn, und Brückthoren unter der Bahn.—12. **Fränkel, D. W.** Drehscheiben und Schiebebühnen.—13. **Streckert, W.** Gesammtanordnung der Bahnhöfe.—14. **Rasch, J.** Die Eisenbahn-Hochbauten auf den Bahnhöfen und ausserhalb derselben.—15. **Wilcke, C.** Berechnung eiserner Dächer.—16. **Meyer, G.** Construction der mechanischen Anlagen für Wasserstationen.—17. **Sonne, E.** Wege, Entwasserung und Einfriedigung der Bahnhofe.—18. **Sternberg, H.** Aussergewöhnliche Eisenbahnsysteme.—19. **Sternberg, H.** Eisenbahnfähren und Eisenbahnschiffbrücken.

II. Eisenbahnwagenbau: 1. **Sonne, E.** Die Eisenbahnwagen und ihre Beziehungen zum Bahnbau.—2. **Heusinger von Waldegg, E.** Die Construction und Fabrikation der Räder von den Eisenbahnfahrzeugen.—3. **Wöhler, A.** Achsen, deren Dimensionen, Form der Achsschenkel, Material und Fabrikation.—4. a. **Heusinger von Waldegg, E.** Construction der Achsbüchsen nebst Beschaffenheit der Schmiermittel. b. **Meyer, G.** Ueber die Lagermetalle der Achsbüchsen und über den Reibungswiderstand der Achsschenkel.—5. **Hladik, C.** Construction der Tragfedern.—6. **Heusinger von Waldegg, E.** Construction der Rahmen, Stoss- und Zugapparate, sowie der Kuppelungen.—7. **Meyer, G.** Construction der Wagenbremsen.—8. **Leonhardi, F.**, *and* **Heusinger von Waldegg, E.** Eintheilung der Wagen, Construction der Wagenkasten, Vor- und Nachtheile der Personenwagen nach dem Coupé- und amerikanischen System, Intercommunicationswagen.—9. **Reifert, C.** *and* **Heusinger von Waldegg, E.** Ueber innere Ausstattung der Personenwagen.—10. **Schneemann, A.** Eisenbahn-Postwagen.—11. **Klövekorn, J.** Passagier-Gepäckwagen mit Dienst-Coupé's, Werkzeug-Behältern, etc.—12. **Klinge, H.** Bedeckte Güterwagen.—13. **Sammann, A.** Offene Güterwagen, Kohlenwagen in Holz und Eisen, etc.—14. **Sammann, A.**, *and* **Leonhardi, F.** Transportwagen für Langholz, Kessel, sowie für aussergewöhnlich grosse und schwere Stucke, Hülfs- und Werkzeugwagen.—15. **Sonne, E.** Kies- und Erdtransportwagen.—16. **Sonne, E.** Aussergewöhnliche Constructionen der Eisenbahnwagen.—17. **Heusinger von Waldegg, E.** Strasseneisenbahn-Omnibus, Dampfwaggons für secundare Bahnen, Bahnmeisterwagen.—18. **Heusinger von Waldegg, E.** *and* **Sammann, A.** Statistik der Wagen, Geschichte und Entwickelung des deutschen Wagenbaues.

III. Locomotivbau: 1. **Linde, C.** Von den mechanischen Wirkungen der Wärme mit besonderer Anwendung auf die permanenten Gase und den Wasserdampf.—2. **Meyer, G.** Die widerstehenden und bewegenden Arbeiten bei Fortschaffung von Eisenbahnzügen.—3. **Grove, O.** Die Locomotive im Allgemeinen und die Entwickelung ihrer Grundverhältnisse.—4. **Basson, W.**, *and* **Heusinger von Waldegg, E.** Die construction der Locomotivkessel.—5. **Meyer, G.** Ueber Brennmaterial und Heizung der Locomotiven, Construction der Rauchverbrennungsapparate, Blasrohrvorrichtungen und Locomotivscharnsteine.—6. **Meyer, G.** *and* **Barries, A. von.** Ueber Wasserspeiseapparate.—7. **Strick, C.** Ueber Dampfaufnahme, Dampfdome, Regulator-Vorrichtungen.—8. **Krauss, C.** Construction der Cylinder, Stopfbüchsen, Kolben, Dichtungsringe, Kolbenstangenführungen und Kreuzhöpfe; selbstthätige Schmierapparate.—9. **Grove, O.** Die Steuerungen der Locomotiven.—10. **Kirchweger, H.** *and* **Koch, R.** Ueber Locomotivrahmen, Kesseltrager, Zug- und Kuppelungsapparate und Bahnräumer.—11. **Krauss, C.** Ueber Triebachsen, Kurbelachsen, Radsterne, Kurbel- und Kuppelstangen.—12. **Frank, A.** Construction der Achsbuchsen, Achsgabelbachen Stellvorrichtungen, Tragfedern und Balanciers.—13. **Lochner, M.** Ueber die Bremsapparate an Locomotiven.—14. **Krauss, C.** Bedeckte Führerstände, Communication mit dem Zugpersonal, Sandstreu-Apparate, Kesselbekleidungen.—15. **Strick, C.** Construction der Tender.—16. **Borries, A. v.** Maschinen für Personen- und Schnellzuge, für gemischte und Güterzuge, mit Ausschluss der Gebirgs- und Rangirmaschinen.—17. **Kock, R.** Gebirgsmaschinen und construction der beweglichen Radgestelle.—18. **Bork, W** Vierrädige Maschine mit besonderem Tender und Tendermaseninen für Haupt- und Secundarbahnen.—19. **Heusinger von Waldegg E.** Geschichte und Statistik der Locomotive, sowie der Locomotivbau-Anstalten und Preise der Locomotiven.

IV. Technik des Betriebes: 1. **Sonne, E.** Einleitung.—2 **Sonne, E.** Signalwesen.—3. **Büte, T.** Construction der Ladevorrichtungen, Hand- und Dampfkrahne; Apparate zum Feststellen der Fahrzeuge auf Seitengleisen.—4. **Schmitt, E.** Wägevorrichtungen für Gepäck, Guter und ganze Wagenladungen; Rollwagen für Gepäck und Güter.—5. **Plathner, C.** Ausrustung der Stations Gebäude.—6. **Sonne, E.** Billetdruck- und Stempel-Apparate.—7. **Büte, T.** Einrichtung der Reparatur-Werkstatten im Allgemeinen und der Schmieden insbesondere.—8. **Heusinger von Waldegg, E.** Bandagen-Glüh- und Aufziehvorrichtungen, Raderpressen, und sonstige Hülfsmaschinen und Werkzeuge beim Montiren der Rader.—9. **Klek, F.** Maschinen zum Ausbohren der Locomotiv-Cylinder, Schieberspiegel- Hobel- und Fralsmaschinen, Maschinen zum Bearbeiten und Durchbohren der Stehbolzen.—10. **Becker, L.** Siederohr-Reparatur.—11. **Klose, A.** Vorrichtungen und Werkzeuge zur Ermittelung der Achsbelastungen und des Raddruckes auf die Schienen; Holzbearbeitungsmaschinen für Eisenbahngegenstande.—12. **Klose, A.** Hebevorrichtungen für Locomotiv- und Wagenwerkstätten und Raderauswechslungsvorrichtungen.—13. **Meyer, G.** Ueber Brenn-, Schmier-, Putz, und Beleuchtungs- Materialien.—14. **Buresch, E.** Organi-

sation der Eisenbahnverwaltungen.—15. **Sonne, E.** Die Unterhaltung des Eisenbahn-Oberbaues.—16. **Sonne, E.** Die Unterhaltung der Weichen, Wege und Eisenbahngebäude, sowie die Bedienung der Weichen und Barrièren. —17. **Winkler, E.,** *and others.* Sicherung gegen Störung durch Schnee und Schultz gegen Zundungen.—18. **Meyer, G.** Anordnung der Züge, Rangiren, Anzahl der Bremsen, Geschwindigkeit der Züge.—19. **Meyer, G.** Wagendienst, Reinigen der Wagen, Untersuchen der Untergestelle, Bedienung der Bremsen, Reparaturkosten und Leistungen der Wagen.—20. **Meyer, G.** Locomotivdienst; Rinnen der Siederohren, Bruche von Maschinentheilen, Schmieren, Putzen und Dichten der Locomotiven, Locomotivpersonal. —21. **Meyer, G.** Probiren und Untersuchen der Locomotivkessel, Repariren der schadhaften Stellen am Kessel und Feuerbuchse, Speisen der Locomotivkessel.—22. **Meyer, G.** Kosten der Zugkraft, Brennmaterialverbrauch, Kohlen- und Oel-Pramien.—23. **Frank, A.** Betrieb der Eisenbahnen im Kriege.—24. **Heusinger von Waldegg, E.** Statistik der Eisenbahnunfälle, Entgleisungen, Zusammenstoss der Zuge, unrichtiges Stellen der Weichen, etc. Sicherheit des Eisenbahnbetriebes in den verschieden Landern. Ergänzungsheft des 4. Bandes; **Launhardt, W.** Die Betriebskosten der Eisenbahnen in ihrer Abhangigkeit von den Steigungs- und Krümmungsverhältnissen der Bahn.

V. Bau und Betrieb der Secundär- und Tertiärbahnen: 1. Einleitung.—2. **Heusinger von Waldegg, E.** *and* **Vojáček, L.** Secundare Bahnen mit normaler und schmaler Spur in der Ebene und bis zu Steigungen von 40 0/00 (1:25).—3. **Büsing, O.** Strassenbahnen (Tramways).—4. **Abt, R.,** *and* **Sternberg, H.** Secundarbahnen im Gebirge.—5. **Heusinger von Waldegg, E.** Tertiarbahnen.—6. **Vojáček, L.** Schwebende Draht- und Seilbahnen.—7. **Büsing, O.** Betrieb der Strassenbahnen durch Dampf und andere mechanische Motoren.—8. **Büsing, O.** Erhohte Strassenbahnen.—9. **Vojáček, L.** Unterirdische Stadtebahnen.

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Holley, A. L. American and European railway practice in the economical generation of steam, including the materials and construction of coal-burning boilers, and the adaptation of wood and coke-burning engines to coal-burning; and in permanent way, including road-bed, sleepers, rails, joint-fastenings, street railways, etc. N. Y., Lond., 1867. F^4. pp. 14 + (2) + 15–192. 77 *plates.*

Humbert, G. Traité complet des chemins de fer: historique et organization financière, construction de la plate-forme, ouvrages d'art, voie, stations, signaux, matériel roulant, traction, exploitation, chemins de fer à voie étroite, tramways. Paris, 1891. 3 vols. Q. pp. (2) + 404; (2) + 399; (2) + 425. 701 *figs*, 2 *fold. plates.*

Hymans, L. Le chemin de fer. Bruxelles, [1884.] D. pp. (2) + 7–113. 4 *cts.*

Jervis, J. B. Railway property: a treatise on the construction and management of railways: designed to afford useful knowledge in a popular style, to the holders of this class of property, as well as to railway managers, officers and agents. Philadelphia, 1866. nar. D. pp. vii + 9–341.

—— *Same.* Philadelphia, 1888. O. pp. vii + 9–341.

Kafka, E. Eisenbahn-Angelegenheiten und Personalien in lexikalischer Form. Leipzig, 1885. O. pp. x + (1) + 318 + (1).

Kennedy, W. S. Wonders and curiosities of the railway, or, stories of the locomotive in every land. 2nd. ed. Chicago, 1884. D. pp. xiv + (2) + 254. 24 *cts.*

Contents: — Introduction.— Beginnings in Europe.— The first American railroads.—The banding of the continent.— Mountain railways. — The vertical railway.— Tramways.—The functions of the railway in war.—The luxuries of travel.—&c.

Kirkman, M. M. The science of railways: with illustrations of the inception, growth and evolution of primitive transportation. Chicago, 1894. 12 vols. D. pp. 423. 125 *cts.;* pp. 548. 230 *cts.;* pp. 448. 131 *cts.;* pp. 420. 152 *cts.;* pp. 529. 152 *cts.;* pp. 406. 157 *cts.;* pp. 393. 141 *cts.;* pp. 358. 46 *cts.;* pp. 407. 102 *cts.;* pp. 421. 152 *cts.;* pp. 476. 158 *cts.;* pp. 423. 79 *cts.*

Contents:—**1.** Organization and forces.—**2.** Financing, building and maintaining.—**3.** Operation of trains.—**4.** Passenger business.—**5.** Freight business.—**6.** Baggage, express and mail business.—**7.** Economical purchase, care and use of material.—**8.** Economy of rates. Private versus government control.—**9** Fiscal affairs, disbursements.—**10.** Fiscal affairs, collection of revenue.—**11.** General fiscal affairs.—**12.** Fiscal duties of agents and conductors.—General index.

Lardner, D. Railway economy: a treatise on the new art of transport, its management, prospects, and relations, commercial, financial and social; with an exposition of the practical results of the railways in operation in the United Kingdom, on the Continent and in America. Lond., 1850. D. pp. xxiii + (1) + 528.

Contents:—Influence of improved transport on civilization.—Retrospect of the progress of transport.—The organization of a railway administration.—The way and works. —Locomotive power.—Carrying stock.—Maintenance and reproduction of the rolling stock.—Stations.—Clearing House.—Passenger traffic.—Goods traffic.—The expenses. —Receipts, tariffs, profits.—Accidents on railways.—Electric telegraph.—Inland transport in the United States.— Belgian; French; German; Russian, Italian and Spanish railways.—Comparison of railway transport in different countries.—Relation of railways to the State.

—— *Same.* N. Y., 1850. O. pp. xxiii + 25–442.

Lecount, *Lieut.* **P.** A practical treatise on railways, explaining their construction and management. Edinburgh, 1839. D. pp. v + (1) + 422. 49 *figs.*, 10 *fold. plates.*

"Being the article 'Railways' in the 7th ed. of the *Encyclopædia Britannica*, with additional details."

Lefèvre, P., *and* **Cerbelaud, G.** Les chemins de fer. Paris, [1889.] O. pp. 7 + 9–320. 167 *figs.*, 6 *plates.* (Bibliothèque des sciences et de l'industrie, publiée sous la direction de J. Pichot et P. Grangier.)

Contents:—Historique.—La voie et les gares.—La traction et le matériel.—Exploitation.—Organization général des compagnies, contrôle, personnel.—Conclusions.

Leygue, L. Chemins de fer: notions générales et économiques: historique sommaire, formalités et réglements relatifs à l'exécution des

travaux, régimes, développements, dépenses, comparaison des voies ferrées avec les routes et les voies de navigation intérieure, prix de revient des transports sur rails, tarifs et leur application, recettes d'exploitation, voie et traction, chemins de fer à voie étroite, considérations économiques. Paris, 1892. Q. pp. (3) + xii + 605. (Encyclopédie des travaux publics, fondée par C. Lachalas.)

Loria, L. Corso di lezioni sulle strade ferrate; dato nel Regio Instituto Tecnico Superiore di Milano, l'anno scolastico 1869–70. [Milano? 1870?] n. p., n. d., 2 vols. bd. in 1. sq. O. pp. 372. 9 *figs.*; pp. 330 + (3). 36 *figs.* and *Atlas of* 19 *plates.* nar. F.
Script lithograph.

—— Le strade ferrate. 2ª ed. Milano, 1890–92. 2 vols. O. pp. xx + 612. 80 *figs.*, 28 *fold. plates;* pp. xi + 613. 25 *figs.*, 28 *fold. plates*, 3 *fold. tables.*
Contents:—Introduzione.—Economia delle strade ferrate.—Armamento e accessori, segnali, stazioni.—Materiale mobile.—Amministrazione.—Servizio militare.

Mayer, G. Les chemins de fer: historique, construction, exploitation. Paris, [1892.] T. pp. 186. 19 *figs.*

Mauger, H. *and* **Noury, L.** Rapport sur l'Exposition de Philadelphie en 1876 au point de vue du matériel des chemins de fer et des sondages. Paris, 1878. O. pp. (2) + 153. 15 *fold. plates.*
Chemins de fer, pp. 89–153. "Extrait de l' *Annuaire de la Société des anciens élèves des Écoles d'arts et métiers*, année 1877."

Minard, C. J. Leçons faites sur les chemins de fer à l' École des ponts et chausées en 1833–34. Paris, 1834. sq. Q. pp. (2) + 84. 8 *fold. plates.*

Nicolls, W. J. The railway builder: a handbook for estimating the probable cost of American railway construction and equipment. Philadelphia, 1890. obl. F°. pp. viii + 9–231. 22 *figs.*
Contents:—Field operations.—Preliminary surveys.—Cost of earthwork.—Permanent way.—Frogs and switches.—Equipment.—Depots and structures.

Noël, O. Les chemins de fer en France et à l'étranger: étude financière et statistique. Paris, 1887. D pp. xiv + 444.
Contents:—*Chemins de fer en France*: Historique.—Régime des chemins de fer.—Conventions financières entre l'État et les compagnies.—Bénéfices de l'État dans l'exploitation des chemins de fer.—Documents statistiques. *Chemins de fer à l'étranger:* Considérations générales.—Chemins de fer de l'Europe.—De l'Asie.—De l'Afrique.—De l'Amérique.—De l'Australasie.

Our railroads; problems for discussion: railroad prosperity and industrial progress, feats of railroad engineering, the trolley and the steam road, postal cars on city lines, duty of the public in strikes, governmental regulation of the railroads, railroads in foreign lands. N. Y., 1895. F⁵. pp. 15.
Contents:—**Ashley, O. D.** Railway prosperity essential to industrial progress—**Sullivan, A. T.** Postal cars on city railroads.—**Ingalls, M. E.** The relations between managers and employes of railroads.—**Prout, H. G.** Electricity or steam?—**Nimmo, J. jr.** The limitations of governmental regulation of the railroads.—**Paine, C.** Great feats in railroad engineering.—**How** the wants of railroads are supplied; by a member.—**Hobbs, C. M.** Responsibility of the public in railroad strikes.—**Greene, T. M.** The margin of profit in transportation.—**Clemens, W. M.** Railroads in Siam.—**Van Etten, E.** How a railroad keeps track of its cars.—**Johnson, J. W.** Eastbound rates on western food products.—**Acworth, W. M.** Contemporary English railway history.—**Slack, F. T.** How I became a car conductor.—**Newcomb, H. T.** Reduction in railway rates.—**Fisher, G. E.** How I became a locomotive engineer.—**De Kalb, C.** South American railroad working in 1894.—**Steever, E. Z.** The Intercontinental Railway Commission.
Extracted from *The Independent*, vol. 47. no. 2427. June 6, 1895.

Paine, C. The elements of railroading. N. Y., 1885. D. pp. v + 154.
"A series of short essays reprinted from the *Railroad gazette.*"

Perdonnet, A. Notions générales sur les chemins de fer: statistique, histoire, exploitation, accidents, organisation des compagnies, [etc.], suivies des biographies de Cugnot, Seguin et George Stephenson, et d' une bibliographie raisonnée. Paris, [1859.] S. pp. vii + 452. 33 *figs.*, 2 *fold. tables.*
Contents:—Statistique.—Histoire.—Des accidents.—Législation des chemins de fer.—Formation du capital des compagnies.—De la comptabilité.—Des tarifs.—Salaries des employés.—Description technique.—Notices biographiques.—Notices sur les chemins de fer, par MM. Perdonnet, Lamé et Clapeyron, 1832.—Bibliographie raisonnée des chemins de fer.

—— Traité élémentaire des chemins de fer. Paris, 1855–56. 2 vols. O. pp. (6) + 554 + (1). 179 *figs.*, 4 *plates*, 5 *fold. maps*; pp. (5) + 576. 341 *figs.*, 6 *plates.*

—— *Same.* 2nd ed. Paris, 1858–60. 2 vols. O. pp. (3) + viii + 739. 251 *figs.*, 8 *plates*, 5 *fold. maps;* pp. (6) + 945 + (2). 403 *figs.*, 7 *plates*, 1 *fold. table.*

Railroad problems: views of experts: government regulation, state interference, Canadian rivalry, ten years' growth, railway accidents, ownership of railways. N. Y., 1891. F⁵. pp. 12.
Contents:—**Hoar, G. F.** Canadian railroads as servants of the United States.—**Schoonmaker, A.** Governmental regulation of railways.—**Beach, C. F., jr.** The functions and accountability of railway directors.—**Warner, A. G.** The railroads and the farmers of Nebraska.—**Prout, H. G.** Do railroad officers use 'due diligence" to insure safety?—**Greene, T. L.** Railway bonds and stocks.—**Clark, F. C.** State interference in the financial management of railroads.—**Meany, J. P.** A decade of American railroads.—**Lewis, G. H.** National consolidation—not governmental ownership—of railroads.
Extracted from *The Independent*, vol. 43. no. 2231. Sept. 3, 1891.

[**Railway** scraps: a collection of newspaper and magazine articles relating to railways.] v.p., 1871–91. 6 vols. sq. F. pp. 140 each.

Ritchie, R. Railways: their rise, progress and construction; with remarks on railway accidents, and proposals for their prevention. Lond., 1846. D. pp. (2) + v–viii + 444. 61 *figs.*

Rogers, S. B. Propositions in aid of a plan to connect London with Canton, in China. Lond., [1844.] O. pp. viii + 9–39. P. 57.

Roney, *Sir* C. P. Rambles on railways; with appendices. Lond., 1868. O. pp. xii + 499 + di–dxix. 4 *plates*, 2 *col. plates*, 4 *diagrs.*, 3 *fold. maps.*

Schoeller, A. Les chemins de fer et les tramways: construction, exploitation, traction. Paris, 1892. D. pp. 361. 91 *figs.* (Bibliothèque scientifique contemporaine.)

Schweiger-Lerchenfeld, A. von. Il secolo del ferro, ossia l'era del vapore: parte prima, le ferrovie: parte seconda, la navigazione Milano, [1887–88.] 2 vols. bd. in 1. Q. pp. (3) + 375 + (1). 132 *figs.*; pp. (3) + 283 + (1). 84 *figs.*

—— Vom rollenden Flugelrad: Darstellung der Technik des heutigen Eisenbahnwesens. Wien, Pest, Leipzig. 1894. O. pp. (4) + vii–xiv + 783. 669 *figs.*, 25 *plates.*

Contents:—Allgemeine Uebersicht.—Eintheilung der Eisenbahnen.—Der Schienenweg.—Die Eisenbahnfahrzeuge.—Die Stationen und das Signalwesen.—Betrieb und Bahnschutz.—Eisenbahnen niederer Ordnung; Aussergewohnliche Construction.—Entwickelung des Eisenbahnwesens.—Quellen-Literatur.

Stephenson, R. M. Railways: an introductory sketch, with suggestions in reference to their extension to British colonies. Lond., 1850. S. pp. vi + 7–119. 90 *figs.*, 1 *fold. plate.* P. 79.

Tredgold, T. A practical treatise on railroads and carriages, showing the principles of estimating their strength, proportions, expense, and annual produce, and the conditions which render them effective, economical, and durable; with the theory, effect and expense of steam carriages, stationary engines, and gas machines. Lond., 1825. O. pp. (2) + v-xi + 184. 3 *figs.*, 3 *plates*, 1 *fold. plate.*

—— *Same.* 2nd ed. Lond., 1835. O. pp. (2) + v-xi + 184. 3 *figs.*, 3 *plates*, 1 *fold. plate.*

Verein Deutscher Eisenbahn Verwaltungen. Conventions techniques relatives à la construction et l' exploitation des chemins de fer de premier ordre. Redigées par la Commission techniques de l' Union [des chemins de fer allemands] d' après les décisions de l' assemblée des ingénieurs de l' Union tenue à Constance, les 19 et 20 Juin, 1888. Traduction textuelle autorisée. Wiesbade, Paris, Milano, 1890. O. pp. (4) + 67. 9 *plates*, 8 *fold. plates.* P. 10.

Weber, M. M., *Freiherr* von. Schule des Eisenbahnwesens: Geschichte, Technik, Administration und Statistik der Eisenbahnen. 3e, vermehrte Auflage neu bearbeitet von Dr. E. Schmitt. Leipzig, 1873. D. pp. (2) + v-xx + 555 + (1). 136 *figs.*

Contents:—Geschichte der Eisenbahnen.—Characteristische Formen des Eisenbahnwesens.—Eintheilung und Bau der Eisenbahnen in Allgemeinen.—Unterbau.—Oberbau.—Betriebsvorrichtungen.—Signal- und Telegraphenwesen, Bahnbewachung.—Stationen.—Locomotion.—Personenwagen. — Guterwagen. — Administration. — Statistische Thatsachen.

—— *Same.* 4e, vermehrte Auflage bearbeitet von Richard Koch. Leipzig, 1885. D. pp. xvi + 772. 170 *figs.*

Wood, N. A practical treatise on rail-roads, and interior communication in general, with original experiments, and tables of the comparative value of canals and railroads. Lond., 1825. O. pp. (2) + 314. 6 *fold. plates*

—— *Same.* 2nd ed., containing an account of the performances of the different locomotive engines at and subsequent to the Liverpool contest. Lond., 1832. O. pp. (2) + v-xxiii + 530. 1 *fig.*, 3 *plates*, 8 *fold. plates*, 1 *fold. table.*

—— *Same.* 1st American from 2nd English ed., with corrections, notes and additions, also an appendix. Philadelphia, 1832. O. pp. xi + ix-xxvi + 27–598 + (1). 1 *fig.*, 3 *plates*, 9 *fold. plates*, 1 *fold. table.*

—— *Same.* 3rd ed., with additions. Lond., 1838. O. pp. (2) + v-xxvii + 760 + (1). 26 *figs.*, 14 *fold. plates*, 3 *fold. tables.*

—— *Same. French.* Traité pratique des chemins de fer. Paris, 1834. sq. Q. pp. (2) + v-xii + 306 + (1), and *Atlas of* 14 *plates.* sq. F.

—— Grahame, T. A letter addressed to Nicholas Wood, on that portion of chap. 9. of his Treatise on railroads, entitled, "Comparative performances of motive power on canals and railroads." Glasgow, 1831. O. pp. (2) + 7–40. P. 35.

"To Sir John Rennie from the author."

Wright, J. Christianity and commerce: the natural results of the geographical progression of railways, or, a treatise on the advantage of the universal extension of railways, and the probability of increased national intercommunication leading to the early restoration of the land of promise to the Jews. Lond., [1851.] O. pp. (2) + 162. 5 *fold. maps.*

"George Cochrane Esq. from J. Wright."

History.

Aynard, T. Voyages au temps jadis; en France, en Angleterre, en Allemagne, en Suisse, en Italie, en Sicile, en post, en diligence, en voiturin, en traineau, en esperonade, à cheval et en patache: de 1787 à 1844. Lyon, 1888. Q. pp. (3) + 7–219 + (5).

Appended, "Voyages au temps jadis: note complémentaire: lettres de noblesse de Jean-Baptiste et Jacques Dugas; mars 1777. Lyon, 1889. Q. pp. (1) + 4.

Beil, J. Q. Stand und Ergebnisse der europäischen Eisenbahnen bis zu dem Jahre 1845.

Wien, 1845. sq. F. pp. (2) + 138 + (4). 1 *fold. table.*

Cumming, T. G. Illustrations of the origin and progress of rail and tram roads and steam carriages, or locomotive engines; also descriptive particulars of the formation, construction, extent, and mode of working some of the principal railways now in use within the United Kingdom. Denbigh, Wales, 1824. O. pp. 64. 2 *plates.* P. 46.

Dodd, G. Railways, steamers and telegraphs: a glance at their recent progress and present state. Lond. & Edinburgh, 1867. D. pp. vi + (1) + 326. 2 *figs.*, 8 *plates.*
Railways, pp. 1-106.

Haberer, T. Geschichte des Eisenbahnwesens. Wien, Pest, Leipzig, 1884. O. pp. vii + 150 + (1). (Bibliothek des Eisenbahnwesens. Bd. I.)

Pennington, M. Railways and other ways: reminiscences of canal and railway life during a period of sixty-seven years; with characteristic sketches of canal and railway men, early tram roads and railways: Canada and its railways, trade and commerce. Toronto, 1894. O. pp. (6) + 407. 43 *photos.*

Roads (The) and railroads, vehicles, and modes of travelling, of ancient and modern countries: with accounts of bridges, tunnels, and canals, in various parts of the world. Lond., 1839. D. pp. viii + 340. 103 *illus.*
Chap. 15, 16. The steam engine.—17. The Liverpool and Manchester railroad.—18. The railroad system.

Salt, S. Facts and figures, principally relating to railways and commerce. Lond., Manchester, 1848. S. pp. (4) + 152.
"Further statistics, of a later date, to compare with what is already given" in his "Statistics and calculations."

—— Railway and commercial information. Lond., Manchester, Liverpool, 1850. S. pp. xi + 240.
"The information is somewhat similar in character to that given in my previous volumes." ["Statistics and calculations," and "Facts and figures."]

—— Statistics and calculations necessary to persons connected with railways or canals. Manchester, 1845. O. pp. 116. P. 54.

Biography.

[Archer, M.] William Hedley, the inventor of railway locomotion on the present principle. Newcastle-upon-Tyne, 1882. O. pp. (5) + 9–66. 1 *fig.*, 3 *plates*, 1 *fold. plate*, 1 *map.*

[——] *Same.* 3rd ed. with additional matter, letters, &c. Lond., and Newcastle-upon-Tyne. [1885.] O. pp. (1) + v–xvi + 80. 1 *fig.*, 3 *plates* 1 *fold. plate*, 1 *map.*

Beamish R. Memoir of the life of Sir Marc Isambard Brunel, civil engineer, &c. 2nd ed. revised. Lond., 1862. O. pp. (4) + ix–xviii + (1) + 357.
Engineer of the Thames tunnel, East London railway. Father of Isambard Kingdom Brunel.

Biographical directory (The) of the railway officials of America; an alphabetical list of the general and division officers, with a record of their railway service; edited by E. H. Talbot and H. R. Hobart. Chicago, and N. Y., 1885. O. pp. vii + (1) + 276. 26 *photos.*

—— *Same.* [2nd ed.] Chicago, [1888.] O. pp. 416. 35 *photos.*

—— *Same.* Edition of 1893; edited and compiled by T. A. Busbey. [Chicago, 1893.] O. pp. (1) + 418.

Bowes, I. George Stephenson, the locomotive, and the first public railway; a lecture delivered at the Salford Royal Museum and Library. Manchester & Lond., 1883. nar. O. pp. 24.
"With compliments I. Bowes."

—— Rails and waterways: George Stephenson and Ferdinand de Lesseps: the men and their work, the first public railway in the world, and the Suez and Panama canals. Manchester, Lond., Bristol. [1893.] O. pp. (3) + 7-62. P. 80.

Brice, C. S. The railroad men of America: Calvin S. Brice. [*anon.*] N. Y., 1889. O. pp. (5). P. 64.
Extracted from *Magazine of Western history*, vol. 10, Oct., 1889.

Cole, *Sir* **H.** Fifty years of public work of Sir Henry Cole, accounted for in his deeds, speeches and writings. Lond., 1884. 2 vols. O. pp. xiv + 398. *frontisp. port.*, 1 *ct.*, 1 *fold. plate*, 1 *fold. table;* pp. (6) + 412. 50 *cts.*, 7 *plates.*
Author of Felix Summerly's "Pleasure excursions," "Railway charts," etc.

Devey, J. The life of Joseph Locke, civil engineer. Lond., 1862. O. pp. iv + 366. *frontisp. port.*

Duncan, W., *editor.* The Stephenson centenary: proceedings, processions, decorations, with the speeches. Lond., [1881.] O. pp. xii + 118. 12 *plates.*

Elliott, R. S. Notes taken in sixty years. St. Louis, Mo., 1883. O. pp. (4) + 336. *frontisp. port.*
Autobiographical and mainly concerning railroads.

George, C. B. Reminiscences of a veteran conductor: forty years on the rail. 4th ed. Chicago and N. Y., 1888. D. pp. (7) + 17–262. *frontisp. port.*, 5 *cts.* (Household library.)

Hodley, O. D. Who invented the locomotive engine? With a review of Smiles's Life of Stephenson. Lond., 1858. O. pp. (1) + 92. 2 *plates*, 2 *fold. plates.*
In defence of the claims of William Hedley.

Helps, *Sir* A. Life and labours of Mr. [Thomas] Brassey: 1805–1870. 2nd ed. Lond., 1872. O. pp. (1) + v–xiv + (1) + 386. *frontisp. port.*, 2 *plates*, 4 *maps*.
Railway contractor.

James, W. Biographical notice of William James, [1771–1837], projector of the railway system in England. [*anon.*] Lond., 1840. O. pp. 16. *frontisp. port.* P. 40.
Extracted from the *Mechanics' magazine*, Sept. 28, 1839.

McDermott, F. The life and work of Joseph Firbank, railway contractor. Lond., 1887. O. pp. (3) + v + (1) + 144. *frontisp. port.*, 25 *cts.*, 5 *plates*, 1 *map*.

Mallott, V. T. The railroad men of America: V. T. Mallott. [*anon.*] N. Y., 1889. O. pp. (6). *port.* P. 64.
Extracted from *Magazine of Western history*, vol. 11, Nov. 1889.

Mateaux, C. L. George and Robert Stephenson. 12th thous. Lond., Paris & Melbourne, 1891. D. pp. iv + 5–128. *frontisp. port.* (The world's workers.)

Muirhead, J. P. The life of James Watt, with selections from his correspondence. 2nd ed. revised. Lond., 1859. O. pp. xvi + 572. *frontisp. port.*, 28 *figs.*, *3 engr. ports.*, 1 *fold. plate*.

Nasmyth, James. James Nasmyth, engineer: an autobiography; edited by Samuel Smiles. Lond., 1883. O. pp. xviii + 456. *frontisp. port.*, 80 *cts.*, 11 *plates*.

P., E. M. S. The two James's and the two Stephensons; or, The earliest history of passenger transit on railways. Lond., 1861. D. pp. viii + 121. 1 *fold. plan*.

Poor, L. E., *editor*. The first international railway and the colonization of New England: life and writings of John Alfred Poor. N. Y., and Lond., 1892. O. pp. (4) + 400.

Redding, B. B. A sketch of the life of Mark Hopkins, of California. San Francisco, 1881. Q. pp. 34. *frontisp. port.*

Reid, H. Remarks on certain statements regarding the invention of the steam engine, in M. Arago's Historical eloge of James Watt. Glasgow, 1840. O. pp. (3) + vii–xi + 13–68.
"To General Wilson with the author's respects. London, Sept. 15, 1845."

Rennie, *Sir* J. Autobiography of Sir John Rennie, past president of the Institution of Civil Engineers; comprising the history of his professional life. [Edited by his son C. G. C. Rennie.] Lond., N. Y., 1875. O. pp. (2) + v–viii + 464.

Seguin, Marc. Notice biographique sur Marc Seguin: 1786–1875. [*anon.*] Lyon, 1887. nar. Q. pp. 20.
In "Seguin Locomotives."

Smiles, R. Memoir of Henry Booth of the Liverpool and Manchester, and afterwards of the London and North-Western railway. Lond., 1869. O. pp. viii + 9–117.
"Presented to the Right Hon. John Bright, M. P., with Miss Booth's compliments. Nov. 1869."

Smiles, S. Lives of the engineers, with an account of their principal works; comprising also a history of inland communication in Britain. Lond., 1861–66. 4 vols. O. pp. xvi + (1) + 484. 2 *ports.*, 81 *cts.*; pp. xiv + 502. 3 *ports.*, 123 *cts.*; pp. xx + (2) + 512. 2 *ports.*, 71 *cts.*; pp. xv + (1) + 521. 2 *ports.*, 74 *cts.*
Contents:—**1.** Early works of embanking and draining.—Life of Sir Hugh Myddleton.—Early roads and modes of travelling.—Bridges, harbours, and ferries.—Life of James Brindley.— **2.** Life of John Smeaton. — Life of John Rennie.—Life of Thomas Telford.—**3.** Lives of George and Robert Stephenson.—Narrative of George Stephenson's inventions and improvements in connection with the locomotive engine and railways; by his son, Robert Stephenson.—**4.** Lives of [Matthew] Boulton and [James] Watt; principally from the original Soho MS.; comprising also a history of the invention and introduction of the steam-engine, 2nd. ed.

Stevenson, A. Biographical sketch of the late Robert Stevenson, civil engineer; read at the Royal Society of Edinburgh, at the meeting of 17th Feb., 1851. Edinburgh, 1861. sq. O. pp. 32. 2 *engrs.*
"Colonel Robertson with kind regards from D [avid] S [tevenson]."

Stevenson, D. Fifty years on the London & North Western railway, and other memoranda in the life of David Stevenson; edited by Leopold Turner. Lond., 1891. O. pp. 153.

Strousberg, — Dr. Strousberg und sein Wirken, von ihm selbst geschildert. Berlin, 1876. O. pp. (6) + 486. 1 *fold. photo.*, 1 *fold. map*.
Railway contractor.

Summerside, T. Anecdotes, reminiscences, and conversations, of and with the late George Stephenson, father of railways, characteristically illustrative of his adroitness, sarcasm, benevolence, and intrepidity. Lond., [1873.] D. pp. (6) + 116. 2 *ports.*, 1 *plate*.
With MS. comments and additions inserted by former possessor of the vol.

—— [Original MS. of same; with additions on separate sheets.] n.t.p. sq. O. pp. (95).

—— [MS. notes on the life of Stephenson.] n.t.p. D. pp. (50).

Telford, T. Life of Thomas Telford, civil engineer, written by himself; containing a descriptive narrative of his professional labours. Lond., 1838. sq. Q. pp. (2) + v–xxiv + 719. 1 *plate;* and *Atlas*, F^{6}. pp. (3.) *frontisp. port.*, 79 *plates*, 4 *fold. plates*.

Trevithick, F. Life of Richard Trevithick, with an account of his inventions. Lond., N. Y., 1872. 2 vols. O. pp. xii + 388. 66 *figs.*, 9 *plates*, 2 *fold. plates*, *frontisp. port.*; pp. vii + (1) + 403. 47 *figs.*, 4 *plates*, 1 *fold plate*, 1 *map*.

United States—53*d Congress.* Memorial addresses on the life and character of Leland Stanford; delivered in the Senate and House of Representatives, Sept. 16, 1893, and Feb. 12, 1894. Washington, 1894. Q. pp. 126. *frontisp. port.*
Includes "Biographical sketch," pp. 5-17, and "Funeral ceremonies at Palo Alto," pp. 19-26.

Vignoles, O. J. Life of Charles Blacker Vignoles, soldier and civil engineer, past-president of Institution of Civil Engineers: a reminiscence of early railway history. Lond., N. Y., 1889. O. pp. (3) + vii-xx + 407. *frontisp. port.*, 12 *cts.*, 8 *diagrs.*, 1 *fold. map.*

Watt, J. Proceedings of the meeting held at Freemasons' Hall, 18th June, 1824, for erecting a monument to James Watt. Lond., 1824. O. pp. x + (1) + 96.

—— *Same.* Large paper ed. Lond., 1824. Q. pp. x + (1) + 96.

Wilson, T. The railway system and its author, Thomas Gray, now of Exeter; a letter to Sir Robert Peel, Bart. Lond., 1846. nar. Tt. pp. (1) + iv + 3-67. P. 41.

Africa.

Bois, A. Sénégal et Soudan: travaux publics et chemins de fer. Paris, 1886. O. pp. (2) + iii + 75. 1 *fold. map.* P. 78.

Cape of Good Hope—*House of Assembly.* Report of the select committee, appointed to inquire into the expediency of the Colonial government encouraging the construction of railroads in the Colony, by guarantee of a certain rate of interest on the capital expended, or otherwise. Lond., 1855. D. pp. 11. P. 78.

—— —*Railway Department.* Report of the general manager of railways, for 1893, 1894. Cape Town, 1894-95. 2 vols. F.

—— Time tables, fares and rates, regulations and classification, Cape government railways. No. 108. Feb., 1895; no. 112, June, 1895. [Cape Town, 1895]. 2 vols. Q.

Chabrier, E. Chemins de fer: les chemins de fer en Algérie, Kreider, Les Chotts, Mecheria. Paris, 1882. O. pp. 16. P. 78.
"Extrait du *Génie civil*, du 15 mai, 1882."

Clavenad, P. Une mission dans le Sud Oranais; considérations sur les dunes du Sahara, étude d' un chemin de fer de Thiaret à El Maia, aperçu géologique sur le Serson, les hauts plateaux, le Djebel-Amour et le Sahara. Paris, 1888. O. pp. (2) + 123 + (1). 57 *cts.*

Duponchel, A. Le chemin de fer transsaharien jonction coloniale entre l' Algérie et le Soudan; études préliminaires du projet et rapport de mission. Montpellier, 1879. O. pp. vii + 9-371. 2 *fold. maps.*

Egypt—*Administration des Chemins de fer, des Télégraphes et du Port d'Alexandrie.* Rapport du Conseil d'Administration sur l'exercice 1885-94 + 8 vols. bd. in 2. Q. and sq. O.
Lacking report for 1889-90.

Elliott, F. B. An address on the prospects of railway enterprise in Natal. Pietermaritzburg, Natal, 1864. D. pp. 32.

Great Britain—*Colonial Office.* Natal railways: copy or extracts of all correspondence relating to projected railways in the colony of Natal, which has passed between the Lieutenant-governor of Natal and the Secretary of state for the colonies during the years 1863, 1864, and 1865. Ordered printed, 6 July, 1865. [Lond., 1865.] F. pp. 75.
In vol. "Great Britain. Colonial railways. Pamphlets."

—— Correspondence on the subject of a proposal for the construction of railways in the colony of Natal. Presented by command, July, 1872. Lond., 1872. F. pp. (2) + 44.
In same.

Natal—*Railway Department.* Report of the general manager of railways for the year ending Dec. 31st, 1894. Pietermaritzburg, 1895. F.

—— Daily train and coach service between Durban and Johannesburg. Durban, 1895. broadside.

—— Natal government railways: time table, 1st October, 1894, and until further notice. Durban, [1894.] Tt. pp. 36.

—— Working time tables, May 1st, 1894, and until further notice. Durban, 1894. O. pp. 39.
"Private—For the guidance of the officers and staff of the Railway Department only." Cover title.

Nederlandsche Zuid-Afrikaansche Spoorweg. Verslag over het jaar 1893. [Amsterdam, 1894.] O.

Ney, N. The proposed Trans-Saharien railway. N. Y., 1891. O. pp. (15). 5 *cts.*, 3 *maps.*
Extracted from *Scribner's magazine*, vol. 10, Nov. 1891, pp. 630-644.

Picardat, L. Construction du chemin de fer Decauville de Sousse à Kairouan en 1881-1882. Paris, 1889. nar. O. pp. 82. 7 *figs.*, 1 *fold map*, P. 82.
"Extrait de la *Revue du génie militaire.*"

Railways in Egypt: communication with India. Lond., 1857. O. pp. xiv + 15-92 + xxxv. P. 57.

Tarry, H. Le chemin de fer Transsaharien, de l'Algérie au Soudan. 2e éd. Paris, 1893. Q. pp. (1) + 21. 1 *fold. map.*

America.

Anderson, A. D. The American and Mexican Pacific railway, or transcontinental short line. Washington, D. C., 1883. O. pp. 80. 10 *plates*, 4 *fold. plates.*

Project for a transcontinental railway from Fernandina, Fla., to Topolobampo on the Gulf of California.

DeKalb, C. The intercontinental railroad problem. N. Y., 1892. O. pp. (10). 1 *map.* P. 4.

Extracted from the *Forum*, vol. 13, Mar., 1892, pp. 85-94.

Schlagintweit, R. von. Die Eisenbahn zwischen den Städten New-York und Mexiko nebst einer allgemeinen Schilderung Mexikos. Weimar, [1883?] T. pp. 40. (Geographische Universal-Bibliothek.) P. 78.

Thirteen papers in support of Mr. Helper's scheme for constructing a longitudinal double-track steel railway through North and Central and South America. St. Louis, 1880. O. pp. 24

Cover title.

Three (The) Americas railway: an international and intercontinental enterprise; by various supporters of the scheme. St. Louis, 1881. D. pp. 473.

Contents:—**Helper, H. R.** Preface and introduction. —1. **Hilder, F. F.** An effort advocating the unification and promotion of New World systems and interests, by means of a longitudinal double-track steel railway through North and Central and South America.—2. **Beelen, F. A.** Deliberations and affirmations respecting the proposed Three Americas railway.—3. **Archer, W. W.** A modicum of facts, arguments and suggestions in support of Mr. Helper's scheme.—4. **Deekens, F. A.** Observations on the prospective advantages of a grand longitudinal midland railway, as projected by H. R. Helper.—5. **Carpenter, F. D.** From zone to zone: a first prize poem, on the Three Americas railway.—6. **Statistics** of Spanish-America.—7. **Helper, H. R.** Brazil's perfidious forfeiture of friendly regard.—8. **Commercial** views officially expressed.—9. **Helper, H. R.** Eighteen additional papers from the projector.—10. **Thirty** miscellaneous communications to the projector.

United States—*Department of State.* Report of the International American Conference relative to an intercontinental railway line. Washington, 1890. O. pp. 215. 1 *map.* 5 *fold. maps.*

Contents:—Report of the committee on railway communication.—Railways of the Argentine Republic, Bolivia, Brazil, Chili, Colombia, Costa Rica, Ecuador, Guatemala, Honduras, Mexico, Nicaragua, Paraguay, Peru, Salvador, United States, Uruguay, Venezuela.—Appendix: Report upon the railways of Spanish-America, by Lieut. George A. Zinn.

—— —*House of Representatives.* [Report of John A. Rockwell, from the select committee on a canal or railroad between the Atlantic and Pacific oceans. Feb. 20, 1849.] n. t. p. [Washington, 1849.] O. pp. 678 + (1). 3 *fold. profiles*, 10 *fold. maps.* (30th Cong., 2nd Sess. Report no. 145.)

Contents:—1. [Report by the committee on the various Central America schemes for connecting the Atlantic and Pacific.] 2. **Alexander, J. H.** Memoir on the routes of communication between the Atlantic and Pacific.—3. **Mills, R.** Railroad from the Mississippi Valley to the ports of San Diego, Monterey, and San Francisco.—4. **Garella, N.** Extract from the report of a survey across the isthmus of Panama, 1845.—5. **Moro, G.** Report of the survey of the isthmus of Tehuantepec, executed in 1842 and 1843; with astronomical, geological and statistical observations.—6. Extracts from Humboldt's writings.—7. Extract from Stephens' Central America.—8. Report (Mar. 2, 1839) from the committee on roads and canals on the memorial of Aaron Clark, and others, praying the aid of the United States in procuring the construction of a ship canal, across the isthmus between North and South America.—9. Table of levels between the lake of Nicaragua and the South sea.—10. Senate report (Jan. 31, 1849) on the memorial of Arkansas for a national road from Fort Smith to Santa Fé and California.—11. Report of the Secretary of State relative to a ship canal across the isthmus of Panama, May 7, 1846.—12. **Lloyd, J. A.** Notes respecting the isthmus of Panama.—13. **Orbegoso, J.** Report of the survey of the isthmus of Tehuantepec, executed in 1826.—14. **Garella, N.** Project of a canal across the isthmus of Panama.—15. Comparison between the proposed Panama, Tehuantepec and Nicaragua canals,—16. [**Garella, N.**] Railroad across the isthmus of Panama.—17. The canal of Nicaragua.—18. State of the trade of Central America up to 1829, and of the town of Guatemala up to 1840.—19. Comparative distances, through Nicaragua and via Cape Horn and the Cape of Good Hope. 20. CORRESPONDENCE:—**Abert, *Col.* J. J.** Routes to the Pacific.—21. **Maury, *Lieut.* W. F.** The Panama railway. —22. **Hughes, *Col.* G. W.** Preliminary report of the survey and location of a railroad across the isthmus of Panama.—23. Communication from Dr. J. Baldwin on the Tehuantepec route.

I. CANADA.

Canada—*Department of Agriculture.* The statistical year book of Canada for 1889–93, 5th–9th year of issue. Ottawa, 1890–94. 5 vols. O.

"Railways and canals": 1889-90, chap 9; 1891, chap. 14; 1892, chap. 7; 1893, chap. 13, pp. 544-612.

—— —*Department of Railways and Canals.* Annual report for the fiscal year 1880–81, 1882–84, 1885–89, 1892–93. Ottawa, 1882–94. 8 vols. bd. in 6. O.

—— *Same, French.* 1879-80. Ottawa, 1881. O.

—— Railway statistics of Canada, and capital, traffic and working expenditure of the railways of the Dominion, 1877–79, 1880–81, 1882–85, 1886–90. Ottawa, 1879-91. 11 vols bd. in 2. O.

Foster, J. Railway from Lake Superior to Red River Settlement, considered. Montreal, 1869. O. pp. 16. 1 *fold. map.*

[Johnson, G.] Johnson's graphic statistics of Canada. [Ottawa, 1888?] O. pp. viii + 83 *plates* + 4 *fold. plates.*

Railways, plates 38-44.

Meddaugh, E. W. *and* **Raymond, A. C.** The Canadian railroad question; arguments and facts submitted to a committee of the United States Senate at a hearing in Detroit, Michigan, May 1, 1891. Detroit, 1891. O. pp. 80.

New Brunswick—*Railway Commissioners.* Report for 1858. Saint John, N. B., 1859. O.

—— *Same.* Supplement. Saint John, N.B., 1859. O.
This and preceding in vol. "E. & N. A. R. report 1858."

Nova Scotia—*Railway Commissioner.* Report for 1863. Halifax, N. S., 1864. O.

Quebec—*Railway Commissioner.* Report for 1881–82. Quebec, [1882?] O.

Seymour, *Gen.* **S.** The railway policy of the government of Quebec; being a review of the reports of the Railway Commissioners. [Quebec?] 1878. O. pp. 41. P. 78.

Towne, A. N. An open letter to the United States Senate Committee on relations with Canada; with some remarks on the 4th and 5th sections of the Interstate Commerce Law. San Francisco, 1889. O. pp. 55.

a. Individual Railways.

Brockville and Ottawa—Canada—*Parliament.* An act for the reorganization of the B. and O. railway, and to authorize the issue of preferential bonds for certain purposes. Assented to, 15th Oct., 1863. [Quebec, 1863?]. O. pp. (2) + 8.

Canadian Pacific. Report of progress on the explorations and surveys up to Jan., 1874. Ottawa, 1874. Q. pp. (2) + v–xi + (2) + 286. 8 *fold. diagrs.*, and *Case of* 8 *fold. maps and charts.*

—— Report on surveys and preliminary operations up to Jan., 1877; by Sanford Fleming. Ottawa, 1877. Q. pp. (3) + vii–xvi + 431. 7 *fold. maps and plans.*

—— Rapport sur les arpentages et explorations preliminaires accomplis sur le Chemin de fer canadien du Pacifique, dans les années 1877, 1878, 1879; par Sanford Fleming. Montreal, 1879. O. pp. (3) + vii–ci + 608. 11 *fold. maps and plans.*

—— Reports and documents in reference to the location of the line, and a western terminal harbour. Ottawa, 1878. Q. pp. (2) + 5–104. 1 *fold. map.*

—— Report and documents, 1880. Ottawa, 1880. Q. pp. (3) + vii–xii + (1) + 373. 8 *fold. maps and plans.*

—— Around the world. 3rd ed. n.p. [1891?] D. pp. 29 + (8). 1 *plate*, 1 *fold. map.*
Cover title. This and the eight next following, in vol. "Canadian Pacific railway. Pamphlets."

—— Banff and the lakes in the clouds. 3d ed. n.p., n.d., obl. T. pp. 20. 11 *cts.*

—— British Columbia: the Pacific province of the Dominion of Canada, its position, resources and climate. n.p., 1893. O. pp. 31. 8 *cts.*, 1 *fold. map.*

—— Farming and ranching in Western Canada: Manitoba, Assiniboia, Alberta, Saskatchewan. n.p., n.d., O. pp. 40. 10 *cts.*, 1 *fold. map.*
Cover title.

—— *Same.* [Another ed.] n.p., n.d., O. pp. 48. 11 *cts.*, 1 *fold. map.*

—— Fishing and shooting along the lines of the C. P. ry. Montreal, 1895. nar. O. pp. 67 + (5). 30 *cts.*

—— The new highway to the Orient, across the mountains, prairies and rivers of Canada. n. p., n. d., Q. pp. 48. 35 *cts.*
Cover title.

—— *Same.* [Another ed.] n. p., n. d., Q. pp. 48. 37 *cts.*

—— Westward to the far East: a guide to the principal cities of China and Japan; by E. R. Scidmore. n. p., 1891. nar. O. pp. 51 + (8). 2 *maps*, 1 *fold. map.*

—— *Same.* 4th ed. n.p., 1893. O. pp. 76 + (2). 63 *cts.*, 2 *maps*, 1 *fold. map.*

—— Canada—*Senate.* Minutes of evidence taken before the select committee appointed to inquire into all matters relating to the C. P. ry. and telegraph west of Lake Superior. Ottawa, 1879. O. pp. 133.

—— Grant, *Rev.* G. M. Ocean to ocean: Sanford Fleming's expedition through Canada in 1872; enlarged and revised ed. Toronto, 1877. D. pp. vi + (1) + 17–394. 7 *plates*, 1 *fold. map.*

—— Great Britain. Correspondence with the government of Canada in connection with the appointment of the joint High Commission and the Treaty of Washington; presented by command, April 1872. Lond., 1872. F. pp. (2) + 15.
Partly on the construction of a Pacific railroad through Canadian territory and financial assistance for it. This and the six next following are in vol. "Great Britain. Canadian Pacific railway. 1872-89."

—— —Further correspondence; presented by command, May, 1872. Lond., 1872. F. pp. (2).

—— —*Same;* presented by command, Mar. 1873. Lond., [1873]. F. pp. (2) + 8.

—— —Further correspondence with the governments of Canada, Prince Edward Island, and Newfoundland, respecting the Treaty of Washington and Canadian Pacific railway; presented by command, 1st May, 1873. Lond., 1873. F. pp. iv + 22.

—— —Correspondence [between the Earl of Dufferin, Governor-general of Canada, and the Earl of Kimberley, Secretary of State for the Colonies] relative to the C. P. ry.; presented by command, March 1874. Lond., 1874. F. pp. (2), + 266.

—— —Correspondence respecting the C. R. ry. Act so far as regards British Columbia; pre-

sented by command, April 1875. Lond., [1875.] F. pp. iv + 99.

—— — Return to an order of the House of Commons, dated 18 July, 1889, for copy "of Treasury minute, dated the 18th July 1889, and of the contract with the C. P. ry., dated the 15th July, 1889, for the conveyance of Her Majesty's mails, troops, and stores between Halifax or Quebec and Hong Kong; ordered printed 18 July, 1889. Lond., [1889.] F. pp. 23.

—— Horetzky, C. Some startling facts relating to the C. P. ry. and the North-west lands; also a brief discussion regarding the route, the western terminus, and the lands available for settlement. Ottawa, 1880. O. pp. 76.
In vol. "Canadian Pacific railway. Pamphlets."

—— Rawlings, T. The confederation of the British North American provinces, and suggestions in reference to the only true and practicable route from the Atlantic to the Pacific ocean. Lond., 1865. O. pp. (9) + 244. 4 *plates*, 1 *fold. map.*

—— Spofford, R. S. Cleveland's policy: his war upon American interests; the wrong to great railroad interests; illegal official interference against them; favor shown to the C. P. ry. n.p., n.d., F. pp. 3.
From the Boston *Evening traveller*, Sept. 17, 1887.

Fort Erie—Canada—*Parliament.* An act to amend the act incorporating the Fort Erie railway, and to change the name of the said company to the Erie and Niagara railway; assented to 15th Oct., 1863. [Quebec, 1863.] O. pp. 3 + 10.

Grand Trunk—Canada—*Parliament.* Railway clauses consolidation acts and acts relating to the G. T. ry. of Canada. Quebec, 1853. nar. Q. pp. 101.

—— M'Calmont, R. Victoria bridge: letter to the shareholders of the G. T. ry. of Canada, with a report to him by Mr. Liddell, on the best and cheapest mode of bridging the St. Lawrence at Montreal; together with counter-reports by R. Stephenson, I. K. Brunel, E. Clark, and A. M. Ross, and replies to each by Mr. Liddell. Lond., 1856. O. pp. (1) + xi + 77.

Great Western Railway of Canada. No. 15, 17–20, 32, 34, 50, 51 report of the directors, July 31, 1861; July 31, 1862–Jan. 31, 1864; Jan. 31, 1870; Jan, 31, 1871; Jan. 31, 1879; July 31, 1879; with statement of accounts. Lond., 1861-79. 9 vols. O.

—— Reply of the president and directors to the report of the committee of investigation. March, 1861. Lond., 1861. F. pp. (2) + 5–92. 1 *fold. map.*
In vol. "Railway reports. Various."

—— Report by the committee of investigation to the shareholders. [Lond., 1874]. O. pp. 51. 1 *fold. map.*
Interleaved with MS. notes by F. Broughton.

—— Reply of the directors to the report of the committee of investigation appointed 30th Oct., 1873, to be submitted to a special meeting of shareholders to be held in London, 26th August, 1874. Lond., 1874. O. pp. (2) + 111. 2 *fold. maps.*
Bound with preceding and interleaved with MS. notes by F. Broughton.

Intercolonial — Fleming, S. The Intercolonial: a historical sketch of the inception, location, construction and completion of the line of railway uniting the inland and Atlantic provinces of the Dominion. Montreal, Lond., 1876. O. pp. (2) + ix + 1 + 5–260. 38 *figs.*, 25 *plates*, 8 *fold. plates*, 5 *maps*, 1 *fold. map.*

—— Great Britain. Final report of the officers employed on the survey of the line for the Quebec and Halifax railway; presented by command, Feb., 1849. Lond., 1849. F. pp. 73. 1 *fold. map.*
This and the thirteen next following are in vol. "Quebec and Halifax ry. & Intercolonial ry."

—— — Correspondence relating to the projected railway from Halifax to Quebec; presented by command, April 8, 1851. Lond., [1851]. F. pp. vii + 127.

—— — Further correspondence relative to the projected railway from Halifax to Quebec; presented by command, June 16, 1851. Lond., 1851. F. pp. 31.

—— — Correspondence between the Colonial Department and Mr. J. Timmis as to the Canada, New Brunswick and Nova Scotia railroad. 7th August, 1851. [Lond., 1851.] F. pp. iv + 29.

—— — Further correspondence relative to the projected railway from Halifax to Quebec; presented by command, June 14, 1852. Lond., 1852. F. pp. ix + 3–167. 1 *fold. map.*

—— — Copies of the address from the legislature of Canada to Her Majesty relative to postal subsidies and the intercolonial railway; ordered printed, 25th July, 1859. [Lond., 1859.] F. pp. 7.

—— — Copy of memorials addressed to the Lords Commissioners of Her Majesty's Treasury, with reference to a proposed railway between the port of Halifax and the provinces of Canada and New Brunswick; ordered printed, 5 May 1862. [Lond., 1862.] F. pp. 11.

—— — Copy of official communications between the Secretary of State for the Colonies and the commissioners representing the provinces of Canada, New Brunswick, and Nova Scotia, on a proposed railway between the port of Halifax and those provinces; ordered printed, 5 May 1862. [Lond., 1862.] F. pp. iv + 23.

—— — Copy of correspondence between the North American provinces and the Imperial government, relating to a loan for an intercolonial railway; ordered printed, 26 July 1864. [Lond., 1864.] F. pp. iv + 46.

—— — Correspondence between the Colonial office and the Treasury respecting the proposed guarantee of the Intercolonial railway loan; ordered printed, 26 Mar. 1867. [Lond., 1867.] F. pp. 18.

—— — Correspondence on Intercolonial railway loan; further papers; ordered printed, 18 June 1869. [Lond., 1869.] F. pp. 21.

—— — Statement and account of proceedings under the Canada railway loan act; ordered printed, 18 June, 1869. [Lond., 1869.] F. pp. 17.

—— — Copy of despatches from the Colonial office to the Governor general of Canada, containing the opinions of the law officers of the Crown respecting the investment of money raised under the authority of the Canada railway loan act, 1867; ordered printed, 18 May, 1870. [Lond., 1870.] F. pp. iv + 28.

—— — Copies of correspondence between Lord Elgin and Sir John Pakington, dated 2nd Aug., 1852; and of extracts from a report of the Executive Council of Canada, dated 31st July, 1852. [Lond., 1872.] F. pp. (2).

—— Quebec (*Province.*) Report on the proposed trunk line of railway from an eastern port in Nova Scotia, through New Brunswick, to Quebec; by Major William Robinson. Ottawa, 1868. O. pp. (2) + 5–68. 1 *fold. map.*

Quebec, Montreal, Ottawa and Occidental —Quebec (*Province*)—*Commissioner of Railways.* [Annual] report concerning the Q. M. O. & O. ry., [for] 1881. Quebec, 1881. sq. Q.

Toronto, Grey and Bruce. Hand-book of useful information respecting the line and the country tributary to it. Toronto, 1872. O. pp. 49. 1 *fold. map.*

II. CENTRAL AMERICA.

Collinson, J. Descriptive account of Captain Bedford Pim's project for an international Atlantic and Pacific junction railway across Nicaragua; report and estimate of cost. Lond., 1866. O. pp. 26. 2 *charts*, 1 *fold. map.* r. 52.

Honduras Interoceanic Railway. Preliminary report; by E. G. Squier. N. Y., 1854. O. pp. 63. 4 *fold. maps.* r. 52.

Company was organized and a charter obtained from the government of Honduras, but no operations undertaken.

Maury, M. F. Letter on the physical geography of the Nicaraguan railway route, to Captain Bedford Pim. Lond., 1866. O. pp. 14. r. 52.

Nicaragua (*Republic*). Terms of railway concession concluded in 1865 between the government of Nicaragua and Captain Bedford Pim: the original in Spanish, [with translation.] Lond., 1866. O. pp. 19. r. 52.

United States—*Navy Department.* Report on interoceanic canals and railroads between the Atlantic and Pacific oceans; by Rear-admiral Charles H. Davis. Washington, 1867. O. pp. 37. 11 *fold. maps*, 3 *fold. charts.*

III. MEXICO.

American and Mexican Railroad. Prospectus and act incorporating the A. and M. railroad, for building a railroad and establishing telegraph lines through the States of Chihuahua and Sonora. N. Y., 1865. O. pp. ix + 5–43.

Anderson, A. D. The Tehuantepec interocean railroad; a commercial and statistical review showing its local, national, and international features and advantages. N. Y., and Chicago, 1880. O. pp. viii + 9–90. 4 *fold. maps.*

Dedicated to Edward Learned of Mass., under whom, as president, the T. Ry. (*see infra*) was reorganized. As only 5 kilom. were constructed the concession was declared forfeited. The Mexican government in 1882 proceeded with the construction of the line.

Baz, G. *and* **Gallo, E. L.** History of the Mexican railway; translated by G. F. Henderson. Mexico, 1876. F[4]. pp. (2) + 9–211. 23 *plates*, 1 *fold. map.*

Corthell, E. L. Advantages of the Tehuantepec interoceanic route, [and the proposed Eads ship railway.] N. Y., 1894. O. pp. (13). 2 *maps.*

Extracted from the *Engineering magazine*, vol. 8, Nov. 1894, pp. 259–271.

—— The interoceanic problem, and its scientific solution: [the Tehuantepec interoceanic ship railway]; an address before the American Association for the Advancement of Science, 34th meeting, Ann Arbor, Michigan, Aug. 26, 1885. n.p., n.d. O. pp. (1) + 5–40. 1 *map*, 1 *fold. map*, 5 *fold. plates.* r. 52.

Eads, J. B., *compiler.* Letters from leading engineers and naval architects as to the practicability of constructing and operating a ship railway, [across the isthmus of Tehuantepec.] St. Louis, 1882. O. pp. 46. r. 52.

Great Britain—*Foreign Office.* Report on the railways of Mexico; [by Sir Francis Denys.] Lond., 1889. O. pp. (2) + 51. r. 78.

Interoceanic Railway of Mexico (*Acapulco to Vera Cruz*). Report and accounts to be presented at the 5th–7th ordinary general meeting

to be held in London, 30th Dec., 1892; 6th Nov., 1893; 17th Dec., 1894. Lond., 1892–94. 3 folders.

—— Issue of £800,000 preferred, cumulative, seven per cent. shares, and £1,400,000 six per cent. mortgage debenture stock. Prospectus. Lond., [1888.] folder, and 1 *fold. map.*

—— A journey over the Interoceanic railway, with particulars of some of the points of interest. Lond., [1894?] illus. folder.

Mexican Central Railway. 9th–11th annual report of the directors to the stockholders, for year ending Dec. 31, 1888–90. Boston, 1889–91. 3 vols. O.

—— Completion of line and opening for business. Mexico, Jan. 30, 1884. broadside. sq. Q. (Traffic department, circular no. 16.)

Mexican Railway. [Time table and description.] [Mexico? 1893.] illus. folder.

—— El ferrocarril mexicano: descripcion de un viaje de la capital azteca al puerto de Veracruz; por Adalberto de Cardona. N. Y., 1894. O. pp. 60. 37 *cts.*, 1 *fold. map.*

Monterey and Mexican Gulf Railroad. Report of Mr. [J.] Dougherty [upon condition and business prospects of the railway]. n. t. p. [N. Y.? 1890?]. O. pp. 24.
Dated, "New York, Feb. 26th, 1890." Cover title.

Seward, W. H. Relations with Mexico and the continental railroad: speech [in the U. S.] Senate, Feb. 8, 1853. n. t. p. [Washington, 1853]. O. pp. 15. P. 78.
Relates more particularly to the Garay grant and the Tehuantepec railway.

Tehuantepec Railroad Co. of New Orleans. The isthmus of Tehuantepec; being the results of a survey for a railroad to connect the Atlantic and Pacific oceans, made under the direction of Major J. G. Barnard, U. S. Engineers; arranged and prepared for the T. R. by J. J. Williams. N. Y., 1852. O. pp. 295. 15 *colored plates*, 1 *fold. diagr.*, 1 *fold. map*, and *Atlas* of 8 *fold. maps.*

"With respects of P. A. Hargous." The franchise which in 1841 had been granted to José de Garay became the property of P. A. Hargous of New York soon after the termination of the war with the U. S.; he organized the T. R. of New Orleans, and the survey was made in 1850–51. The Mexican Government however prohibited further operations.

Tehuantepec Railway. The Tehuantepec railway: its location, features, and advantages under the La Sere grant of 1869. N. Y., 1869. O. pp. (4) + vii–xxiii + 2–73 + 40 + 25–88. 10 *plates*, 2 *fold. maps.*

Contents:—Introduction.—Grant from Mexican government to Emilio La Sere.—**Stevens, H.** Historical and geographical notes: 1453–1869. N. Y., 1869. O. pp. 40.—Topography, inhabitants, climate, harbors, &c., sources of revenue.

"To Edwd. W. Clark Esq. Philad. with the compliments of his friend Simon Stevens. New York, July 31, 1869." The T. Ry. Co. was incorporated Nov. 1868, in Vermont: Simon Stevens, president, P. A. Hargous, secretary; new surveys were made but no road built. See further under Anderson, A. D., *supra.*

IV. SOUTH AMERICA.

Bidwell, C. T. The isthmus of Panama. Lond., 1865. O. pp. vii + 418. *colored frontisp.*
Railways, chap. 6, 8, 9, 15, 17, 20, and appendix, pp. 389-418.

Branner, J. C. The railways of Brazil; a statistical article. Chicago, 1887. O. pp. (2) + 5–26. 1 *map*, 1 *fold. map*, 1 *fold. table.* P. 53.
"Reprinted from the *Railway age*, with notes and additions."

Bureau of the American Republics. Railways of South America. Washington, 1894. O. pp. (20).
Extracted from the *Monthly bulletin*, Feb., 1894. pp. 29–48.

Central Argentine Railway. Report of the directors to the 29th–31st ordinary general meeting, to be held 6th May, 1892; 3rd May, 1893; 2nd May, 1894. Lond., 1892–94. 3 vols. O.

Cisneros, F. J. Report on the construction of the La Dorada railroad, "U. S. of Colombia." N. Y., 1881. O. pp. 48. 1 *fold. map.*

Hunter, G. M. The Anglo-Chilian nitrate railway, Tocopilla to Toco. Lond., 1893. O. pp. 8 1 *fig.*, 1 *fold. plate.*
"Excerpt *Minutes of Proceedings of the Institution of Civil Engineers*, vol. 115, session 1893-94, pt. 1."

Nitrate Railways (The). [11th–12th] report and accounts for the year ending 31st Dec. 1892–93. Lond., 1893–94. 2 folders.

—— Map. [Lond., n. d.] Scale, [4 m. = in.] Size, 72 x 50 cm.

North-West Argentine Railway. [9th] report of the directors to the shareholders, and statement of accounts, to Dec. 31st., 1893. Lond., 1894. O.

Oeste de Minas, Estrada de ferro do. Relatorio da directoria; apresentado á assembléa geral de accionistas de 30 de Maio de 1889. Rio de Janeiro, 1889. O. P. 53.

Otis, F. N. Illustrated history of the Panama railroad: together with a traveler's guide and business man's handbook for the Panama railroad and its connections. 2d ed., revised and enlarged. N. Y., 1862. O. pp. (10) + 15–273. 31 *plates*, 2 *maps.*

Panama Railroad. [Prospectus.] N. Y., 1849. O. pp. 62. 1 *fold. map.*
This and the two next following in vol. "Panama railroad. Pamphlets."

—— Communication of the directors to the stockholders; with the report of the chief engineer to the directors. N. Y., 1855. O. pp. 63. 1 *fold. map.*

—— Letter from the directors, addressed to the Senate and House of Representatives of the United States, in reply to the remarks of the Postmaster-General. Presented to Congress Dec. 5, 1856. N. Y., 1856. O. pp. 36.

Tomes, R. Panama in 1855; an account of the Panama rail-road, of the cities of Panama and Aspinwall. N. Y., 1855. S. pp. (4) + 13-246. 6 *cts.*, 5 *plates*, 1 *map.*

Uruguay—*Ministerio de Fomento.* Estudio sobre los ferrocarriles sud americanos y las grandes lineas internacionales [por Juan José Castro]; enviado á la Exposicion universal de Chicago. Montevideo, 1893. Q. pp. (1) + 5-651 + (1).

Lacks the plates.

—— *Same, English.* Treatise on the South American railways and the great international lines [by Juan José Castro]; sent to World's Exhibition of Chicago. Montevideo, 1893. Q. pp. (1) + 5-601. 13 *plates*, 2 *fold. plates.*

Contents:—Railways of Uruguay.—Argentine Republic.—Brazil.—Chili.—Paraguay.—Bolivia.—Peru.—The intercontinental railway.—The interoceanic [Transandine] railway.—Population of the South American states.—The ports and railways of Uruguay.—General conclusions.

V. UNITED STATES.

Ackerman, W. K. Early Illinois railroads; a paper read before the Chicago Historical Society, Feb. 20, 1883. Chicago, 1884. O. pp. 174. (Fergus' historical series, no. 23.)

Contents:—Early Illinois railroads.—Correspondence between Sidney Breese and Stephen A. Douglas with reference to the claim of the former to have originated the idea of the Illinois Central railroad.—The oldest railroad in Illinois.—Origin of the names of stations on the line of the Illinois Central.

American (The) railway; its construction, development, management, and appliances. N. Y., 1889. Q. pp. (3) + vii-xxviii + 456. 233 *figs.*, 28 *plates*, 13 *maps*, 20 *charts.*

Contents:—**Cooley, T. M.** Introduction.—**Clarke, T. C.** The building of a railway.—**Bogart, J.** Feats of railway engineering.—**Forney, M. N.** American locomotives and cars.—**Alexander,** *Gen.* **E. P.** Railway management.—**Prout, H. G.** Safety in railroad travel.—**Porter,** *Gen.* **H.** Railway passenger travel.—**Voorhees, T.** The freight-car service.—**Norton, B.** How to feed a railway.—**James, T. L.** The railway mail service.—**Hadley, A. T.** The railway in its business relations.—**Adams, C. F.** The prevention of railway strikes.—**Adams, B. B.** *jr.* The every-day life of railroad men.—**Hewes, F. W.** Statistical railway studies.

Reprinted contributions to *Scribner's magazine*, June, 1888-Sept, 1889.

Bernard, F. Les valeurs des chemins de fer aux États-Unis. Paris, 1894. Q. pp. 103. 1 *fold. map.*

[Boston, *Mass.*—*City Council*]. The railroad jubilee; account of the celebration commemorative of the opening of railroad communication between Boston and Canada, Sept. 17-19, 1851. Boston, 1852. O. pp. (1) + 288. 1 *fold. map.*

Brosius, J. Erinnerungen an die Eisenbahnen der Vereinigten Staaten von Nord-Amerika. 2e vermehrte Auflage. Wiesbaden, 1885. O. pp. ix+157. 63 *figs.*, 3 *fold. plates.*

Contents:—Reiseroute.—Allgemeine Organisation der amerikanischen Eisenbahnen.—Beamten- und Arbeiterverhaltnisse.—Agenten- und Reklamewesen.—Sparsystem—Der Oberbau.—Die Eisenbahnfahrzeuge.—Lokomotivschuppen und Werkstätten.—Der Betriebsdienst.—Guter- und Personenbeforderung.—Leben und Treiben in den Personenzugen der amerikanischen Eisenbahnen.—Die Sicherheit auf den amerikanischen Bahnen.—Revisionen.

[Carter, T. J.] Railroad progress, transportation and management. Springfield, 1873. O. pp. 42. P. 51.

Cover title.

Connecticut—*General Assembly.* Report on [*sic*] the joint standing committee on railroads, on the resolution instructing said committee to inquire whether any railroad companies have combined to prevent the construction of any other railroads. New Haven, 1852. O. pp. 8. P. 89.

Earle, T. A treatise on rail-roads and internal communications; compiled from the best and latest authorities, with original suggestions and remarks. Philadelphia, 1830. O. pp. 120. 7 *figs.*, 2 *fold. plates*, 2 *fold. maps.*

Contents:—Of the plan and formation of a rail-road for horse power.—Of the plan and formation of a rail-way for locomotive engines.—Of the carriages for transportation.—Of locomotive engines.—Of stationary power.—Of tunnels.—Comparative advantages of canals and rail-roads.—An account of canals in the United States.—A description of rail-roads in the United States.—Suggestions for future improvements.—Suggested improvements in Pennsylvania.—A brief description of the anthracite coal region of Pennsylvania.

Facts and arguments in favour of adopting railways in preference to canals, in the State of Pennsylvania. 4th ed. Philadelphia, 1825. O. pp. 68. P. 89.

[Fernon, T. S.] Philadelphia and her western railroad connections. [Philadelphia,] 1852. O. pp. 44. P. 92.

Report addressed to the president of the Pennsylvania railroad. Cover title.

Flint, H. M. The railroads of the United States: their history and statistics; comprising progress and present condition of the various lines with their earnings and expenses; to which are added a synopsis of the railroad laws of the United States, and an article on the comparative merits of iron and steel rails. Philadelphia, [1868.] D. pp. (2) + 5-452.

Gerstner, F. A. *Ritter* **von.** Die innern Communicationen der Vereinigten Staaten von Nordamerica; nach dessen Tode aufgesetzt, redigirt und herausgegeben von L. Klein. Wien, 1842-43. 2 vols. sq. Q. pp. viii + 376. 15 *fold. plates*, 1 *fold. map;* pp. (3) + 339. 19 *fold. plates.*

Contents:—1. Das Canal-System im Staate New-York.—Eisenbahnen und Canäle in den östlichen Staaten.—Canäle und Eisenbahnen in Staate Ohio.—2. Canäle und

Eisenbahnen in den Staaten Indiana, Michigan und Illinois.—In den Staaten New-Jersey und Pennsylvania.—Eisenbahnen in den Staaten Delaware, Maryland, Virginia, Nord- und Süd-Carolina.—Die innern Communicationen in den Staaten Georgia, Alabama, Florida, Louisiana, Mississippi, Tennessee und Kentucky.

[Heckel, G. B.] A ramble by rail. Chicago, 1883. O. pp (17). 25 *cts.* P. 92.
Extracted from *Abbot's U. S. monthly*, vol. 5. July, 1883.

Kennedy, J. H. The American railroad. N. Y., 1889. 2 pts. O. pp. (14); (17). P. 64.
Pt. 20. Echoes of the great crash. Railroad iron. Reaching to the Pacific.—21. The invention and advance of the electric telegraph.
Extracted from *Magazine of Western history*, Oct. and Nov. 1889.

King, T. S. The railroad jubilee; two discourses delivered in Hollis-Street meeting-house, Sunday, Sept. 21, 1851. Boston, 1851. nar. O. pp. 54. P. 92.

Kupka, P. F. Die Verkehrsmittel in den Vereinigten Staaten von Nordamerika. Leipzig, 1883. O. pp. x + 413 + (1). 1 *fold. map.*
Contents:—Allgemeines.—Kanäle.—Eisenbahnen.—Post und Telegraph.

Lavoinne, E., *and* **Pontzen, E.** Les chemins de fer en Amérique. Paris, 1880–82. 2 vols. O. pp. (2) + 547; (2) + 659 + (1); and 2 *Atlases* obl. Q. *of* 39 *plates*; 38 *plates.*
Contents:—1. Construction:—Aperçu géographique.—Historique.—Infrastructure.—Superstructure.—Gares, stations et signaux.—Prix de revient.—Annexes.—2. Exploitation, chemins de fer à voie étroite et tramways.—Matériel de transport.—Exploitation technique.—Exploitation commerciale.—Régime financier et légal.—Chemins de fer à voie étroite.—Chemins de fer dans les villes.—Annexes.

—— Martin, J. Analyse de l' ouvrage de Lavoinne et Pontzen sur les chemins de fer en Amérique. Paris, 1887. O. pp. 39. P. 77.
"Extrait des *Annales des ponts et chaussées*, Septembre, 1887."

Leyen, A. von der. Die Finanz- und Verkehrspolitik der nordamerikanischen Eisenbahnen: ein Beitrag zur Beurtheilung der neuesten Eisenbahnkrisis. Berlin, 1894. Q. pp. (7) + 80.
Contents:—Einleitung.—Die Eisenbahngründung.—Das Anlagekapital.—Die Eisenbahnwerthpapiere.—Die Eisenbahntarife.—Die Wettbewerbtarife.—Die Durchschnittsfrachtsätze 1852 bis 1892.—Refaktien, Agenten, Freifahrt, Reklame.—Ergebnisse der Eisenbahnstatistik 1889–90 und 1890–91.—Schlussbetrachtung.
"Sonderabdruck aus dem *Archiv fur Eisenbahnwesen.* 1894. Heft 1."

—— Die nordamerikanischen Eisenbahnen in ihren wirtschaftlichen und politischen Beziehungen. Leipzig, 1885. O. pp. (4) + 402.
Contents:—Einleitung: die Eisenbahnfrage in den Vereinigten Staaten von Amerika.—Die Camden-Amboy-Frachtgesellschaft.—Die Nord-Pazifik-Eisenbahn.—Die staatliche Aufsicht uber die Eisenbahnen.—Die New Yorker Hochbahnen.—Die Personenverkehr auf den Eisenbahnen der Vereinigten Staaten.—Die Lokaltarife der Eisenbahnen des amerikanischen Nordwestens.—Eisenbahnkriege und Eisenbahnverbände.—Getreidefrachten der amerikanischen Eisenbahnen.—Die vereinigten Monopole nordamerikanischen Privatbahnen und der Standard Oil Company.

Louisiana, Pike county, Missouri, showing its prominence and importance, present and prospective, as a railroad center. [Louisiana, Mo.] n. d., broadside. P. 77.

Neele, G. P. Atlantic and American notes; account of the recent visit of the directors of the London and Northwestern railway to Canada and the United States. Lond., 1882. pp. 70. 1 *fold. map.* P. 64.

Observations on railroads, in the western and southern states. Cincinnati, 1850. D. pp. (2) + 5–28. P. 55.
Reprinted from the Cincinnati *Chronicle* and *Atlas.*

Parseval, J. von. Die amerikanischen Eisenbahnen: deren Aktien oder Prioritäten an deutschen Börsen gehandelt werden, dargestellt in ihrer Entstehung, ihren Finanz- und Betriebsverhältnissen, nach Originalberichten, Poor's Manual und anderen Quellen. Berlin, 1886. D. pp. vii + 111.

—— *Same.* 2e gänzlich umgearbeitete Auflage, von W. L. Hertslet. Berlin, 1892. D. pp. (2) + v–viii + 67.

Pennsylvania — *House of Representatives.* Report relative to the use of the Pennsylvania railroads. Read March 14, 1834. Harrisburg, 1834. nar. O. P. 89.

Pennsylvania (The) Society for the Promotion of Internal Improvement. Reports on canals, railways, roads, and other subjects; by William Strickland. Philadelphia, 1826. obl. Q. pp. vi + 51. 1 *fig.*, 53 *plates*, 5 *fold. plates.*

Pik, J. De Amerikaansche spoorwegwaarden: bijdrage tot de kennis der te Amsterdam verhandelde fondsen. Groningen, 1879. O. pp. (4) + 7–180 + (9). 1 *fold. map.*

Plant, H. B. The South Atlantic railways. N. Y., 1892. O. pp. (11). 10 *cts.* (The great railway systems of the United States.) P. 55.
Extracted from the *Cosmopolitan*, vol. 13. Oct., 1892.

Pomeroy, C. C. A few hints to the reading public interested in railroad construction in the Mississippi valley. Cincinnati, 1855. O. pp. 8. P. 55.

—— Hints to railroad subscribers in the Mississippi valley. Cincinnati, 1855. O. pp. 12. P. 55.

—— Hints no. 3, to railroad economists in the Mississippi valley. Cincinnati, 1855. O. pp. 16. P. 55.

Poor, H. V. History of the railroads and canals of the United States of America; exhibiting their progress, cost, revenues, expenditures & present condition. Vol. I. N. Y., 1860. O. pp. viii + 9–612.
Contents:—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland.
Lacks *Atlas of maps.* No more published, but see **Poor's** Manual, 1868–91.

—— Sketch of the rise and progress of the internal improvements, and of the internal commerce, of the United States; with a review of the charges of monopoly and oppression made against railroad corporations. N. Y., 1881. O. pp. lxxxi. P. 2.
Reprinted from Poor's "Manual" for 1881.

Poussin, G. T. Chemins de fer américains: historique de leur construction, prix de revient et produit, mode d'administration adopté, résumé de la législation qui les régit. 2e éd. Bruxelles, 1836. Q. pp. (2) + 124. 7 *fold. plates*, 1 *fold. map.*
Contents: — Introduction. — Ligne de l'Atlantique. — Lignes de l'Atlantique vers l'Ouest.—Administration, frais d'entretien, frais de traction.—Documens sur la législation.

Present (The) situation and future prospects of American railroads. Philadelphia, 1855. O. pp. 8. P. 1.

Prussia — *Ministerium der Oeffentlichen Arbeiten.* Die nordamerikanischen Eisenbahnen in technischer Beziehung; Bericht uber eine im Frühjahre 1891 unternommene Studienreise: Verfasser, Th. Büte und A. von Borries. Wiesbaden, 1892. sq. F. pp. xii + 282. 74 *figs.*, 1 *fold. map* and *Atlas of* 33 *plates*, 22 *fold. plates.*
Contents:—**Büte, T.** Einleitung, Organisation, allgemeine Darstellung.—**Borries, A. von.** Signalwesen.—Bauart der Lokomotiven.—**Büte, T.** Bauart der Wagen.—Allgemeines über Betrieb.—**Borries, A. von.** Betriebsdienst der Lokomotiven.—**Büte, T.** Betriebsdienst der Wagen.—Allgemeines uber Werkstätten und Fabriken.—**Borries, A. von.** Lokomotiv-Fabriken und Werkstätten.—**Büte, T.** Wagen-Werkstätten und Fabriken.—**Borries, A. von.** Oberbau und mechanishe Anlagen.—Beschaffenheit, Abnahme und Verwendung der Brenn- und Schmierole.

Railroad proceedings and address of Fulton and vicinity, to the people of Ohio. Cincinnati, 1835. O. pp. (2) + 29 + (1). P. 55.
Addresses by J. S. Williams and others.

Ringwalt, J. L. Development of transportation systems in the United States; comprising a comprehensive description of the leading features of advancement, from the colonial era to the present time, in water channels, roads, turnpikes, canals, railways, vessels, vehicles, cars and locomotives; the cost of transportation, by the different methods; the questions that have arisen; and notable incidents in railway history, construction and operation. Philadelphia, 1888. F. pp. 398. 48 *plates.*
Contents:— Before railways.— Railway infancy.— Railway youth.— Railway manhood.

Shaler, N. S., *editor.* The United States of America: a study of the American commonwealth, its natural resources, people, industries, manufactures, commerce, and its work in literature, science, education, and self-government. N. Y., 1894. 2 vols. Q.
Contents relating to railways:—**II.** 1. **Atkinson, E.** Productive industry.—2. **Cooley, T. M.** *and* **C. H.** Transportation.—3. **Typical** American inventions.—**Prout, H. G.** Railroad construction and equipment.

Sketch of the geographical rout [*sic*] of a great railway, opening a free communication, at all seasons of the year, between the Atlantic states and the great valley of the Mississippi. N. Y., 1829. O. pp. 16. P. 54.

Smith, W. P. The book of the great railway celebrations of 1857, embracing a full account of the opening of the Ohio and Mississippi, and the Marietta and Cincinnati railroads, and the Northwestern Virginia branch of the Baltimore and Ohio railroad, with histories and descriptions of the same and an account of the subsequent excursion to Baltimore, Washington, and Norfolk. 1st ed. N. Y., 1858. O. pp. vi + (1) +264 + 178. 27 *plates*, 2 *fold. plates*, 1 *fold map.*

Southern and Western Railroad Convention. Address to the people of the Southern and Western States. New Orleans, 1851. O. pp. 34 + vi. 1 *fold. map.* P. 55.
Reprinted from *De Bow's monthly review*, New Orleans, Aug. 1851. Cover title.

Stevenson, D. Sketch of the civil engineering of North America; comprising remarks on the harbors, river and lake navigation, railways, bridges, and other works. Lond., 1838. O. pp. (2) + vii–xv + 17–320. 37 *figs*, 9 *plates*, 5 *fold. plates*, 1 *fold. map.*

[**Stilwell, S.,** *chairman.* Ulster county, N.Y., railroad meeting, held in Kingston, 12th Dec. 1836.] n.t.p. O. pp. 8. P. 92.

Stucklé, H. Voies de communication aux États-Unis: étude technique et administrative. Paris, 1847. O. pp. (2) + v–vii + 470 + (1). 1 *fold. map*, 6 *fold. tables.*

Tanner, H. S. A description of the canals and railroads of the United States, comprehending notices of all the works of internal improvement throughout the several states. N. Y., 1840. O. pp. vii + 9-272. 2 *fold. plates*, 3 *fold. maps.*

Thoughts about the city of St. Louis, her commerce and manufactures, railroads, etc. St. Louis, 1854. O. pp. 77 + (3). 14 *plates.* P. 92.
First published in the *Missouri republican.*

United States — *Census Office.* Statistical view of the United States: being a compendium of the seventh census. Washington, 1854. O. pp. 400.
Railroads, p. 189.

—— Preliminary report on the eighth census: 1860. Washington, 1862. O. pp. xvi + 294.
Railroads, pp. 214-237.

—— [Tenth census: June 1, 1880.] Report on the agencies of transportation. Washington, 1883. F.
Contents: — **1. Shuman, A. E.** Statistical report of the railroads in the United States [: general review and statistics of traffic and fiscal operations, physical characteristics and statistics of physical characteristics of the railroads in the United States.] pp. vi + (1) + 639.

—— Abstract of the eleventh census: 1890. Washington, 1894. O. pp. vi + (1) + 250 + vi.
Transportation, pp. 217-224.

—— Preliminary results [of eleventh census]. Washington, 1891. sq. Q.
Railways, Bulletins no. 46, 55, 115, 120, 149, 151, 155, 160, 164, 171, 472.

—— — *Senate.* Report of the select committee on transportation routes to the seaboard, with appendix and evidence; ordered printed April 24, 1874. Washington, 1874. 2 vols. O. pp. 260 + 232. 1 *map*, 4 *fold. maps*, 4 *fold. charts;* pp. (1) + 990.
Contents:—1. Production.—Actual competition between water and rail transport.—Defects and abuses of existing systems of transportation.—The constitutional power of Congress to regulate commerce among the several States.—Competition between railways and its promotion by the construction of additional lines.—Direct regulation by Congress.—Indirect regulation through the agency of one or more railway-lines to be owned or controlled by the government.—Water-ways.—Summary.—Appendix.—2. Proceedings of the committee.

—— — *Treasury Department.* Statistical abstract of the United States: 1885-1894, 7th-17th [annual] number. Washington, 1886-1895. 10 vols. O.
Includes "Railroads" and "Freight rates."

—— Report on the internal commerce of the United States: commerce and navigation; for 1881-82—1891. Washington, 1884-92. 9 vols. O.

Washington (*City*) **Railroad Convention.** Proceedings of the rail-road convention held Oct., 1859. Alexandria, 1859. O. pp. (1) + 11. p. 92.

a. Commission Reports.

Alabama—*Railroad Commission.* 1st-12th annual report, for the year ending June 30, 1881-92. Montgomery, 1881-92. 7 vols. O.
Lacking reports 2, 4, 5, 7, 9.

California—*Commissioners of Transportation.* Report to the legislature, Dec., 1877. Sacramento, 1877. O.

—— Supplementary report. Jan. 14, 1878. Sacramento, [1878?] O.

—— Biennial report for 1877 and 1878. Sacramento, 1879. O.
Succeeded by:

—— *Board of Railroad Commissioners.* 1st-13th annual report, for 1880-92. Sacramento, 1881-92. 13 vols. in 11. O.

—— 1st biennial report, 1893-94. Sacramento, 1894. O.

Connecticut—*Railroad Commissioners.* 4th, 12th-41st annual report for 1856-57, 1865-93, together with the annual reports of the railroad corporations for 1856, 1864-75 [to which are added statistical tables compiled from the annual returns for 1875-93.] New Haven, Hartford, 1857, 1865-93. 28 vols. O.
Lacking reports 14, 20, 30.

Dakota—*Railroad Commission.* 2nd-5th annual report, for year ending June 30, 1886-89. Grand Forks, Bismarck, Dak., Watertown, South Dakota, 1886-89. 4 vols. O.
For later reports *see infra*, North and South Dakota.

Georgia—*Office of Public Works.* Annual report upon the state aid railroads, for the year ending October 1st, 1871. Atlanta, 1871. O.

—— — *State Commissioners.* Report of the State Commissioners representing the stock held by the State in the Atlantic and Gulf rail road. Savannah, 1872. O.

—— — *Railroad Commission.* 1st-15th semi-annual report [and Supplement to the 3rd], 16th-22nd report. Atlanta, 1880-94. 17 vols. bd. in 3. O.
4th-6th combined; 7th-8th combined; 12th-14th combined.

Illinois—*Railroad and Warehouse Commission.* 1st-24th [and Supplement to the 10th] annual report, for 1871-94. Springfield, 1872-95. 20 vols. O.
Lacking reports 3, 8, 17, 20. Advance sheets of 22nd report.

Indiana—*Board of Internal Improvement.* [5th] annual report. Indianapolis, 1840. O.

—— *State Board of Tax Commissioners.* Proceedings for 1891-94. Indianapolis, 1891-94. 4 vols. O.
Board assesses railroad property, and its reports are almost entirely given up to railroad statistics.

Iowa—*Board of Railroad Commissioners.* 1st-17th annual report, for the year ending June 30, 1878-94. Des Moines, 1878-95. 17 vols. O.
Index to reports 1878-94 in 17th annual report, pp. 431-480.

Kansas—*Board of Railroad Commissioners.* 1st-11th annual report, for 1883-93. Topeka, 1884-94. 11 vols. O.

Maine—*Railroad Commissioners.* [18th]-36th annual report, 1876-94. Augusta, 1877-95. 17 vols. bd. in 8. O.
Lacking reports 19 and 20.

Massachusetts—*General Court.* Annual reports [Returns] of the railroad corporations in Massachusetts, for 1833-69. Boston, [1833]-70. 20 vols. O.

—— — *Board of Railroad Commissioners.* 2nd-26th annual report, Jan., 1871-'95; [and railroad reports for the year ending Sept. 30, 1871-June 30, 1894.] Boston, 1871-95. 24 vols. O.

—— A digest of the reported decisions, precedents and general principles enunciated by the Board, from 1870 to 1888; by J. H. Wigmore; [with an Index to the reports of the Board, from 1870 to 1888; by G. C. Crocker.] Boston, 1888. O. pp. (2) + v-xx + 136.

Michigan—*Commissioner of Railroads.* 1st–22nd annual report for 1872–94. Lansing, 1874–94. 22 vols. O.

Minnesota—*Railroad Commissioner.* Annual report for the year ending June 30, 1878–84. Minneapolis, St. Paul, 1879–84. 7 vols. bd. in 5. O.

Succeeded by:

—— — *Railroad and Warehouse Commissioners.* Annual report for the year ending June 30, 1885–86. St. Paul, 1886. 2 vols. O.

—— Revision of the first biennial report, as to amendments, and revision of the railroad and warehouse laws; as required by Act of March 5, 1885. St. Paul, 1886. O. pp. 50.

Missouri—*Board of Public Works and State Engineer.* [1st] report upon the condition of the various railroad companies of the State. Jefferson City, 1857. O.

—— — *Railroad Commissioners.* 5th–9th annual report, for 1879–83. St. Louis, [1881?]; Jefferson City, 1883–84. 3 vols. bd. in 2. O.

Lacking 7th report. 5th–6th combined.

—— — *Railroad and Warehouse Commissioners.* 18th annual report, [for] 1892. Jefferson City, 1893. O.

Montana—*State Board of Equalization.* 1st–3rd annual report, [for] 1890–92. Helena, 1890–92. 3 vols. bd. in 1. O.

The Board assesses railroad corporations.

National Convention of Railroad Commissioners. Proceedings, general conference, Mar. 5–7, 1889; [2nd–5th annual convention,] May 28–29, 1890; Mar. 3–4, 1891; Apr. 13–14, 1892; Apr. 19–20, 1893. Washington, 1889–93. 5 vols. O.

Nebraska—*Board of Railroad Commissioners.* [2nd annual] report, for the year ending June 30, 1886. Omaha, 1887. O.

Succeeded by:

—— — *Board of Transportation.* 1st–6th annual report, for the year ending June 30, 1887–92. Lincoln, Omaha, 1888–93. 6 vols. O.

New Jersey—*State Directors of the Delaware and Raritan Canal and Camden and Amboy R. R.* Report [for 1847]–69. Trenton, 1848–70. 19 vols. O.

Lacking report for 1850, '52, '54, '57. For later reports *see infra, Comptroller of the Treasury.*

—— — *Secretary of State.* Annual reports of railroad and canal companies, [for 1853]–67. Trenton, New Brunswick, Jersey City, Newton, Camden. 1851–68. 15 vols. bd. in 1. O.

—— — *Comptroller of the Treasury.* Annual statements of the railroad and canal companies of New Jersey, and the Report of the State Directors of the Delaware and Raritan canal and the Camden and Amboy transportation companies, for 1868–92. Trenton, 1869–93. 21 vols. bd. in 13. O.

Report for 1872, "of the railroad and canal companies of New Jersey;" 1873–78, "together with the Report of the State Director of the United Railroad and Canal companies;" 1879–92, "together with the Report of the State Director of the United New Jersey Railroad and Canal company."

Lacking reports, for 1869, '70, '75, '82.

—— — *Commissioner of Railroad Taxation.* [1st] annual report, for 1882. Trenton, 1882. O.

—— — *Comptroller of the Treasury.* Annual report for year ending Oct. 31, 1883–93, [and Supplement to report for 1884; Feb. 11, 1885]; with abstracts of the amount of ratables. Trenton, 1883–93. 11 vols. O.

Railroads of the State are required to make reports to this office. *See supra,* and title following.

—— — *State Board of Assessors.* 1st–9th annual report, for 1884–92. Trenton, 1884–93. 9 vols. O.

The duty of the Board is the assessment of the railroad and other corporations, these bearing the chief taxation in the State.

New York — *State Engineer and Surveyor.* Annual report on the railroads of the State, for 1849–82. Albany, [1850]–83. 32 vols. bd. in 30. O.

For 1849, "of the railroad corporations in the State;" 1850–51, "of the State Eng. and Surveyor, covering the returns of the railroads," with cover title, "of the . . . on the railroad statistics of the State"; 1852–55, "on the railroad statistics of the State;" 1857 &c. as above. No report for 1855 and 1856, see next title.

—— — *Board of Railroad Commissioners.* Annual report; and of the tabulations and deductions from the reports of the railroad corporations, made to the Board, for the year ending Sept. 30, 1855–56. Albany, 1856–57. 2 vols. O., and 2 *Atlases of maps and plates.* O.

Vol. for 1855 in 2 pts. This Board discontinued in 1857.

—— [1st]–10th annual report, for the year ending Sept. 30, 1883–June 30, 1892 [and Supplementary report, Jan. 11, 1881]. Albany, 1884–93. 20 vols. in 19. O.

Two vols. to each year: I. Reports and laws.—II. Tabulated statements of annual reports. This Commission created in 1882. Supplementary report in vol. I. p. 86.

North Carolina—*Board of Railroad Commissioners.* 1st–3d annual report, for 1891–93. Raleigh, 1892–94. 3 vols. O.

North Dakota—*Commissioners of Railroads.* 1st–3rd annual report, for 1890–92. Bismarck, 1890–93. 3 vols. O.

Ohio—*Commissioner of Railroads and Telegraphs.* 3rd–26th annual report, for 1869–92. Columbus, Norwalk, 1870–93. 18 vols. O.

Lacking reports 6, 9, 13, 17, 19, and vol. II of 4th report. Vol. I of 4th report, for 1870, contains: Laws of Ohio and of Congress relative to railroads and telegraphs; and charters of the various companies [in Ohio], with notes of decisions.

Oregon—*Railroad Commissioners.* [1st]–4th biennial report, for 1889–95. Salem, 1889–95. 4 vols. bd. in 3. O.

Pennsylvania—*Auditor General.* Reports of the railroad companies, [for 1862, '63], '67, '68, '70, '72, '73. Harrisburg, 1863–74. 7 vols. O.
For 1867-73, "Annual report; and of the tabulations and deductions from the reports of railroad and canal companies." Succeeded by:

—— — *Secretary of Internal Affairs.* Annual report, part 4: rail road, canal, navigation and telegraph [and telephone] companies, for 1875, '77–80, '92. Harrisburg, 1876–93. 6 vols. O.

—— Tabulated results compiled from the annual reports of railroad, passenger railway, canal and telegraph companies, for 1875. Harrisburg, 1876. O. pp. 99.
Reprinted from Annual report, for 1875.

Rhode Island—*Railroad Commissioner.* Annual report, [for 1885]–93. Providence, 1886–94. 9 vols. bd. in 7. O.

South Carolina—*Railroad Commissioner.* 2nd–4th [and Supplement to 3rd] annual report. [Columbia, 1881–83.] 3 vols. O.
In vol. "South Carolina Reports and resolutions." Succeeded by:

—— — *Railroad Commissioners.* 5th–9th annual report. Columbia, 1883–[88.] 5 vols. bd. in 4. O.

South Dakota—*Railroad Commissioners.* 2nd–3rd annual report, for 1891–92. Pierre, 1893. 2 vols. in 1. O.

Tennessee — *Railroad Commission.* 1st–2nd annual report. Nashville, 1884. 2 vols. in 1. O.

Texas—*Railroad Commission.* 1st–2nd annual report, for 1892–93. Austin, 1892–93. 2 vols. O.

United States—*Interstate Commerce Commission.* 1st–8th annual report, Dec. 1, 1887–94. Washington, 1887–94. 8 vols. O.

—— 1st–6th annual report on the statistics of railways in the United States, for the year ending June 30, 1888–93. Washington, 1889–94. 6 vols. O.
The Library has also "advance copy" of 3rd and 6th reports.

—— [1st–3rd] preliminary report on the income account of railways in the United States, for the year ending June 30, 1892–94. Washington, 1893–94. 3 vols. bd. in 1. O.
In vol. "Interstate Commerce Commission. P. 4."

—— — *Department of the Interior—Auditor of Railroad Accounts.* [1st, 3rd] annual report, for year ending June 30, 1878, '80. Washington, [1879?]–80. 2 vols. O.

—— — — *Commissioner of Railroads.* Annual report, for 1881–92. Washington, 1881–92. 12 vols. bd in 7. O.

Vermont—*Railroad Commissioner.* Biennial report, for 1881–82. Rutland, 1882. O.

—— *Board of Railroad Commissioners.* 2nd–3rd biennial report, June 30, 1888–1892. Burlington, 1890–92. 2 vols. O.

Wisconsin—*Railroad Commissioners.* 1st–2nd annual report, for 1874–75. Madison, 1874–75. 2 vols. O.
Succeeded by:

—— — *Railroad Commission.* 3rd–8th annual report, for 1876–81. Madison, 1876–82. 6 vols. O.

—— 2nd–3rd biennial report, [for] period ending June 30, 1886–1888. Madison, 1887–89. 2 vols. O.

Wyoming—*State Auditor.* Annual report, for year ending Sept. 30, 1892. Cheyenne, 1892. O.
Railroads in the State are required to make reports to this office, and the valuations of railroad property are contained in its reports.

b. Guides.

American railway guide and pocket companion for the United States; containing correct tables for time of starting from all stations, distances, fares, etc., on all the railway lines in the United States; with a complete railway map. Charles Cobb, compiler, [June,] 1851; [edited by R. S. Fisher, Aug. 1852; Oct. 1853.] N. Y., [1851–53]. 3 pts. T.
Pts. for Aug. 1852 and Oct. 1853 in vol. "American railway guides. 1."

Appletons' illustrated railway and steam navigation guide; contains the time tables, stations, distances, and connections upon all the railways throughout the United States and the Canadas; collected and arranged by G. F. Thomas. [April, 1861.] N. Y., 1861. sq. S.
In vol. "American railway guides. 3."

Appletons' northern and eastern traveller's guide; by W. Williams. N. Y., Philadelphia, 1850. S. pp. 313. 24 *cts.*, 22 *fold. maps.*

—— *Same.* New and revised ed. N. Y., 1853. S. pp. 303. 25 *cts.*, 22 *fold. maps.*

Appletons' railroad and steamboat companion; a travellers' guide through the United States, Canada, New Brunswick, and Nova Scotia; by W. Williams. N. Y., Philadelphia, 1848. S. pp. 313. 25 *cts.*, 22 *fold. maps.*

Appletons' southern and western travellers' guide; by W. Williams. N. Y., 1851. S. pp. (2) + 5–140. 8 *cts.*, 9 *fold. maps.*

—— *Same.* N. Y., 1853. S. pp. (2) + 5–140. 8 *cts.*, 9 *fold. maps.*

Baldwin's Chicago railroad guide and business directory. March, 1867. Chicago, [1867]. sq. S.
In vol. "American railway guides. 2."

Bancroft's California guide, complete: railways, steamships and stage lines of California. Vol. 1. no. 2. Feb., 1891. San Francisco, 1891. O.
In same, 5.

Bancroft's guide for travelers by railway,

stage, and steam navigation in the Pacific States. July 1873, no. 49. San Francisco, [1873.] sq. S.
In same, 2.

Bishop's A. B. C. guide; containing a complete shippers' and travelers' guide; also, railroad time tables. Nov. 1894. vol. XVI, no. 119. San Francisco, 1894. O.
In same, 4.

Bowen, E. The pictorial sketch-book of Pennsylvania, or its scenery, internal improvements, resources, and agriculture, popularly described; [together with: Locomotive sketches with pen and pencil, from Philadelphia to Pittsburg.] Philadelphia, 1852. O. pp. (3) + 9-268 + (1) + 13-192. 168 *figs.*, 26 *plates*, 1 *fold. map.*

—— Rambles in the path of the steam-horse; from Baltimore to Harper's Ferry, Cumberland, Wheeling, Cincinnati, and Louisville. Philadelphia, Baltimore, 1855. O. pp. viii + 432. *colored half-title*, 162 *cts.*

Bullinger's postal and shippers' guide for the United States and Canada; containing every post-office, railroad station and United States fort, with the railroad or water route on which every place is located; compiled and published by E. W. Bullinger. Jan. 1881. N. Y., [1881.] Q. pp. 430.

Crofutt's new overland tourist and Pacific coast guide; to tell you what is worth seeing, where to see it, where to go, how to go, and whom to stop with while passing over the Union, Kansas, Central and Southern Pacific railroads, their branches and connections, through Nebraska, Wyoming, Colorado, Utah, Montana, Idaho, Nevada, California and Arizona; by Geo. A. Crofutt. Omaha, 1880. D. pp. 281. 71 *cts.*, 18 *fold. plates*, 1 *fold. map.*

—— *Same.* Omaha, and Denver, 1882. D. pp. 275. 8 *cts.*, 17 *fold. plates*, 1 *map.*

Dinsmore's railroad and steam navigation guide and route-book. [November, 1859. Vol. x, no. 3.] N. Y., [1859.] T.
In vol. "American railway guides. 2."

Disturnell, J. The western traveller; embracing the canal and railroad routes, from Albany and Troy, to Buffalo and Niagara Falls. N. Y., 1844. S. pp. 90 + 5. 3 *plates.*

Doggett's United States railroad and ocean steam navigation guides. [September, 1847.] N. Y., [1847]. sq. S.
In vol. "American railway guides. 2."

Ensign, Bridgman & Fanning's travellers' guide through the States of Ohio, Michigan, Indiana, Illinois, Missouri, Iowa and Wisconsin; with railroad, canal, stage, and steamboat routes. N. Y., 1857. T. pp. 36. 1 *fold map.*

Harper's New York and Erie railroad guide book; containing a description of the scenery, rivers, towns, villages and most important works on the road; by William Macleod. N. Y., [1851]. D. pp. viii + 9-173 + (1). 136 *cts.*

—— *Same.* 8th ed. revised, enlarged, and corrected. N. Y., 1855-6. D. pp. viii + 9-188. 136 *cts.*, 1 *fold map.*

Holbrook's United States railroad guide, and steamboat journal; containing official tables, with hours of departure of trains. Vol. 2, no. 16, April, 1851. N. Y., [1851]. T.
In vol. "American railway guides. 1."

International (The) railway guide; giving the time-tables of the Grand Trunk railway of Canada and of all railways connecting Canada and the United States. Nov. 1868. Montreal, [1868]. O.
In same, 4.

International tourist guide; information regarding the principal routes East and West, also rates of, and routes over which, excursion tickets are sold during summer months. Chicago, [1870]. T.
In same, 2.

Lloyd's [W. Alvin] southern steamboat & railroad guide. Vol. 8, no. 2. Feb. 1861. N. Y., 1861. O.
In same, 5. Contains interesting preliminary notices indicative of strong Southern feeling, among others a full page (p. i.) denunciation of a firm of jewellers in New York, and an appeal to Southern buyers not to patronize "the black Republican house," because one member of the firm "voted for Abraham Lincoln," and yet "wanted the Southerns' money."

Macfarlane, J. An American geological railway guide, giving the geological formation at every railway station, with altitudes above mean tide-water, notes on interesting places on the routes, and a description of each of the formations. 2d ed., revised and enlarged. N. Y., 1890. O. pp. (2) + 426.

Northern (The) traveller, and northern tour; with the routes to the Springs, Niagara, and Quebec, and the coal mines of Pennsylvania; also, the tour of New England. New [4th] ed. N. Y., 1831. S. pp. (6) + 441. 9 *plates*, 18 *maps*, 1 *fold. map.*

Noyes's illustrated national guide, and travellers' companion, for railways, steamboats, and general circulation. N. Y., [1857.] O. p. 64.

Ohio (The) railroad guide; Cincinnati to Erie via Columbus and Cleveland. Columbus, 1851. D. pp. (5) + 135. 31 *plates.*
Half-title: Cincinnati, Columbus, Cleveland and Erie railroad guide.

Pacific coast official railway and steamship guide; compiled and edited by B. N. Rowley, Mar., 1891; Feb.-Sept. 1891. San Francisco, 1891-94. 9 nos. O.

Railroad gazetteer: official organ of railway, steamship and stage lines of the Pacific coast. Feb., 1882; Sept.-Dec., 1893. San Francisco, 1882-93. 5 nos. O.

Railway (The) hand-book; a complete index to the transportation systems of the Pacific Coast. Nov. 1, 1890; March 1, 1892. San Francisco, [1890–92]. 2 pts. T.
In vol. "American railway guides. L"

Rand, McNally & Co's railway guide; the travelers' hand book to all railway and steamboat lines of North America; arranged by Robert A. Bower. [April, 1873.] Chicago, 1873. sq. S.
In same, 3.

Smalley, E. V. The great Northwest; a guide-book and itinerary for the use of tourists and travelers over the lines of the Northern Pacific railroad, the Oregon railway and navigation company and the Oregon and California railroad. St. Paul, 1888. D. pp. (3) + 7–390. 76 *cts.*. 1 *fold. map in pocket.*

Smith, J. C. The illustrated hand-book; a new guide for travelers through the United States of America; with the railroad, stage and steamboat routes, and the fares on the great traveling routes. N. Y., 1848. T. pp. 234. *frontisp.*, 125 *cts.*, 1 *fold. map.*
Map incomplete.

Travelers' and shippers' directory for the Pacific coast. Jan.–Dec., 1892–94; vol. 1–3. San Francisco, 1892–94. 27 pts. O.
Lacks Jan., Sept., Oct., Dec., 1892; July, Sept., Nov., 1893; Oct., Dec., 1894.

Travelers' official guide, *see under* **Periodicals and Transactions.**

Travelers' ready reference guide: consolidation of the Knickerbocker and Appletons' national railway and steam navigation guide. 1886–89. N. Y., 1886–89. 47 pts. bd. in 12 vols. O.
Lacks Nov., 1886.

Truman, *Major* **B. C.** Tourists' illustrated guide to the celebrated summer and winter resorts of California, adjacent to and upon the lines of the Central and Southern Pacific railroads. San Francisco, 1883. O. pp. (4) + 9–232. 74 *cts.*, 1 *map.*

Williams, H. T. The Pacific tourist: Williams' illustrated trans-continental guide of travel, from the Atlantic to the Pacific ocean; containing descriptions of railroad routes across the continent, pleasure resorts and places of most noted scenery in the far West; a complete traveler's guide of the Union and Central Pacific railroads. N. Y., 1876. O. pp. 309 + (3). 145 *cts.*, 1 *fold. map.*

Williams, W. The traveller's and tourist's guide through the United States of America, Canada, etc., containing the routes of travel by railroad, steamboat, stage and canal. Philadelphia, 1851. T. pp. 216 + 24. 1 *fold. map.*

Wolfe, J. M. Guide, gazetteer, and directory of Nebraska railroads, comprising the Union Pacific, Sioux City and Pacific, Midland Pacific, Burlington and Missouri River in Nebraska, Omaha and Northwestern, Omaha and Southwestern, and Brownville, Ft. Kearney & Pacific railroads. Omaha, 1872. D. pp. 160. 16 *plates*, 1 *fold. map.*
In vol. "American railway guides. 4."

c. Individual Railways.

Note:—The name of the railway as given nere is that by which it was known at the date of publication. For changes, see index of "Railroads merged in other lines," in each number of "Poor's Manual."

1. *Other than the Pacific Railroads.*

Adirondack. Adirondack company's charter, amendments, and the laws relating thereto: [1863–71]. n. t. p. [187–] O. pp. 10.

—— Adirondack company's railroad: report of Silas Seymour. n. p., 1870. O. pp. 20. 1 *fold. map.*
Cover title.

—— Seymour, S. Observations concerning eastern and western railway transport; with distance tables by several routes, from New York and Boston to Chicago: [the Adirondack ry. and its relations to through traffic.] N. Y., 1885. O. pp. 26. P. 77.

Alabama and Florida. Report of the president and directors to the stockholders in convention; July 26, 1856, May 1, 1858. Washington, Pensacola, 1856–58. 2 vols. O.

Alabama and Tennessee River. Exposition: a portion of the great through route from New York to New Orleans and Pensacola. N. Y., 1866. O. pp. 23.

Alabama, Florida and Georgia. Report; by William S. Campbell, president of the Board of directors. n. p., 1838. O. pp. (2) + 5–124.
Map lacking.

—— *and others.* Charters for rail-roads to and from Pensacola. N. Y., 1846. O. pp. 30.
Charters of A. F. & G.; Pensacola and Perdido; and Blakely and Perdido.

Albany and Schenectady. Charter; with the acts of the legislature amendatory of and in addition thereto. Albany, 1847. O. pp. 30.

—— Report to the Albany and Schenectady turnpike company, upon laying a rail road upon their turnpike; made Augt., 1831, by William M. Cushman. n. t. p. O. pp. 15.
Maps lacking.

Albany and Susquehanna. Some considerations respecting the proposed construction of the A. & S. Albany, 1852. O. pp. 19.

—— Curtis, G. T. An inquiry into the A. & S. litigations of 1869, and David Dudley Field's connection therewith. N. Y., 1871. O. pp. 125.

Albany and West-Stockbridge. Reports of the engineers, made to the directors, in 1840–41. Albany, 1842. O. pp. 44 + (1). 1 *fold. map.*

—— Cheever, S. A letter to the editor of the *Albany daily advertiser*. n.t.p. O. pp. 4.
"From the *Albany daily advertiser*."

Alexandria and Fredericksburg. [Circular of Fisk & Belden, bankers: first mortgage bonds. Dated New York, Sept. 1, 1866.] [N. Y.? 1886?] F. broadside.

Alexandria, Londoun and Hampshire. 2nd–4th annual report, presented Oct. 20, 1854, Oct. 16, 1855, Oct. 22, 1856. Alexandria, 1854–56. 3 vols. D.

Andover and Haverhill. A brief statement of facts in relation to the A. & H. n.t.p. [183–?] O. pp. 4.

Atchison, Topeka and Santa Fé. Annual report of the Board of directors to the stockholders for the year ending Mar. 31, 1873; Dec. 31, 1874, '76, '81–88; June 30, 1890–93. Boston, 1873–93. 11 vols. O; 4 vols. sq. Q.
Reports 1885–93 numbered 14th–21st.

—— Atlas of the Santa Fé route; accurate county maps of the territory traversed by the system. New ed. Chicago, 1892. sq. F. pp. 35. 12 *maps.*

—— [Blank "power of attorney" in favor of Geo. C. Magoun, and others.] n. p., 1890. Q. broadside.

—— By-laws; adopted May 7, 1888; May 9, 1889; Sept. 20, 1889; July 1, 1893. Chicago, Topeka, N. Y., Boston. 4 vols. O.
In vol. "Atchison, Topeka & Santa Fé. Pamphlets. 2."

—— Charter of company, congressional land grant, Kansas legislative land grant; together with a map exhibiting the route of said rail road. N. Y., 1864. O. pp. 22. 1 *fold. map.*

—— Charter; embracing congressional land grant and Kansas legislative land grant. Boston, 1884. O. pp. 19.
In vol. "Atchison, Topeka & Santa Fé. Pamphlets. 2."

—— [Circular and blank for subscriptions to the capital stock of the Company, for the purpose of constructing the road from Newton to Fort Larned; dated Boston, Sept. 28, 1871.] [Boston, 1871.] sq. O. broadside.

—— [Circular: Atchison bond equivalents; Kidder, Peabody & Co.] [N. Y., and Boston.] n. d. obl. Q. broadside.

—— [Circular: exchange of Atchison bonds under reorganization plan; Kidder, Peabody & Co.] [N. Y., and Boston.] n. d. sq. O. broadside.

—— [Circular giving a condensed statement of the "Method of exchange" under the Atchison reorganization plan; dated Boston, Oct. 15, 1889. Parkinson & Burr.] [Boston, 1889.] F. broadside.

—— [Circular letter, dated 16 Dec. 1889, to stockholders, proposing exchange of stock certificates for stock trust certificates, &c.; Kidder, Peabody & Co.] [N. Y., and Boston, 1889.] Q. pp. (1).

—— [Circular no. 64, dated May 23, 1890: the Board of directors to the stockholders, proposing purchase of the St. Louis & San Francisco ry.] [Boston, 1890.] sq. Q. pp. (4).

—— [Circular to the stockholders, dated Jan. 21, 1890: correspondence referring to the voting trust of the Atchison stock; Kidder, Peabody & Co.] [Boston, 1890.] sq. Q. pp. (3).

—— Circular to the stockholders, dated Jan. 30, 1890: proposing modifications in the deed of trust of the proposed stock trust; Kidder, Peabody & Co.] [Boston, 1890:] sq. Q. pp. (2).

—— Grand Cañon of the Colorado; by C. A. Higgins. Chicago, 1892. sq.O. pp. 32. *frontisp.*, 27 *cts.*

—— *Same.* Chicago, 1893. sq. O. pp. 31. 7 *cts.*, 7 *plates*, 2 *maps.*

—— [Guide, dated 8/1/78] [Topeka? 1878.] nar. D. folder.

—— In a tourist sleeper to California, via Santa Fé route. St. Louis, Chicago, Topeka. 1893. nar. S. pp. 27. 23 *cts.*, 1 *map.*
This and the one next following in vol. "Atchison, Topeka & Santa Fé. Pamphlets. 1."

—— The land of sunshine; by C. A. Higgins. Chicago, 1892. S. pp. (3) + 7–48. 64 *cts.*

—— Manual no. 12–21, [and Correction no. 1 to Manual no. 20.] A. T. & S. F. and auxiliary companies. Augt. 5, 1887–Jan. 7, 1895. Topeka, 1887–95. 9 vols. D. and O.
Lacking no. 15.

—— Memorial [asking Congress to extend for four years the time for completing the road to the western line of Kansas; dated Feb. 5, 1872.] [Boston? 1872.] sq. O. broadside.

—— Plan of re-organization: circular no. 63, Oct. 15, 1889. [Boston? 1889.] sq. Q. pp. 19.

—— [Prospectus.] Boston, 1871. O. pp. 28. 1 *fold. map.*

—— Statement, as of Nov. 30, 1888. n.p., n.d. O. pp. (4) + 58.

—— Statement of operations, for the year 1871. n.t.p. Boston, n.d., sq, O. pp. (2).

—— To California and back; by C. A. Higgins. Chicago, 1893. D. pp. 151. 169 *cts.*, 1 *map.*
In vol. "Atchison, Topeka & Santa Fé. Pamphlets. 1."

—— Valuation of A. T. & S. F. R.R. bonds under reorganization, presented by Gould, Hall & Co., Boston; [dated Oct. 17, 1889.] [Boston, 1889.] O. pp. 3.

Atlantic and Great Western. 1st annual

report of the central board of management to the stockholders, for 1863. Buffalo, 1864. O.

—— [Report on the A. & G. W. presented to and adopted by the New York Stock Exchange, Oct. 30th, 1863.] n.t.p. [N. Y., 1863.] sq. O. pp. 3.

—— Report on narrow-gauging the A. & G. W.; by R. E. O'Brien, Apr., 1873. N. Y., 1873. O. pp. 8.

Atlantic and Gulf. 18th report of the president and directors to the stockholders, Jan. 1, 1873. Savannah, 1873. O.

Atlantic and Pacific. Report of the general manager to the directors, Dec. 1873. N. Y., 1874. O.

—— Circular to the stockholders. N. Y., 1855. O. pp. 27.

—— Laws and documents [relating to] A. & P. and leased lines. St. Louis, 1873. O. pp. (3) + 242.

—— Dolph, J. N. A. & P. R. R. land grant: speech in the Senate of the United States, July 3, 1884. Washington, 1884. O. pp. 32.

Atlantic, Mississippi and Ohio. 1st annual report of the president and directors for the year ending Sept. 30, 1871. Lynchburg, Va., 1872. O.

—— Meeting of the consolidated bondholders, London, 19th June, 1878. Lond., 1878. O. pp. (2) + 5–30.

Baltimore and Drum Point. Prospectus, and copy of the charter and the laws relating to the company; also traffic contract with the Baltimore and Ohio. Baltimore, 1888. O. pp 112..

Baltimore and Ohio. [Annual] report of the president and directors to the executive of the State of Maryland, Dec., 1831. n.p., n.d. O.

—— 4, 6, 26, 27, 31–34, 40, 44, 47, 53, 54, 62–68 annual report of the president and directors to the stockholders. Baltimore, 1830–94. 20 vols. O. and sq. Q.

—— Address of Thomas Swann, president, to the stockholders at their general meeting, May 1; in relation to the act of the General Assembly of Virginia, passed Mar. 21, 1850, providing for a settlement of the route west of Pile's Fork to the city of Wheeling. Baltimore, 1850. O. pp.70.

—— Address of John W. Garrett to the Board of directors of the B. & O. upon his re-election as president of that company, Dec. 1865. Baltimore, 1865. O. pp. 20.

—— B. and O. annual; by J. G. Pangborn. 1886, 1887. [Baltimore, 1886–87.] 2 vols. sq. Q.

—— [Circular announcing arrangements for the annual meeting of the American Medical Association, Washington, May, 1884.] n.p., n.d. obl. Tt. pp. (4).

—— [Circular announcing excursion arrangements for the annual meeting of the American Institute of Homeopathy, at Deer Park, June 1884.] N. Y., printed, [1884]. nar. O. pp. (2). *illus.*

—— Correspondence between the Chesapeake and Ohio canal company and the B. & O. in relation to the disputes between those companies concerning the right of way along the Potomac river. Baltimore, 1830. O. pp. iv + 5–80.

—— Deer Park: 3,000 feet above the sea; by J. G. Pangborn. Chicago, 1884. sq. O. pp. (16). 28 *cts.*

—— Deer Park and Oakland; on the crest of the Alleganies; season of 1893. n.p., n.d. [N. Y., printed, 1893.] sq. O. pp. 23. 16 *cts.*, 8 *plates.*
Cover title.

—— [Executive order, no. 1, dated Baltimore, Nov. 20, 1884.] n.t.p. Q. pp. (2)

—— Fishing resorts on picturesque B. & O. [Baltimore], 1890. O. pp. 27. 26 *cts.*

—— The great railway conflict; remarks of John W. Garrett, president, at the regular monthly meeting of the Board of directors, April 14th, 1875. Baltimore, 1875. O. pp. 18.

—— Guide to Washington. n.p., n.d., [N. Y., printed, 1889.] D. pp. 51. 16 *cts.*, 1 *map.*

—— Laws and ordinances relating to the B. & O. R.R. Baltimore, 1850. O. pp. (2) + 9–283.

—— Mountain and valley resorts on picturesque B. & O.; by J. G. Pangborn. Chicago, 1884. sq. O. pp. 32. 32 *cts.*

—— Mountain Lake Park: summit of the Alleghanies; by J. G. Pangborn. Chicago, 1884. sq. O. pp. (16). 9 *cts.*

—— Picturesque B. & O.; by J. G. Pangborn. Chicago, [1884.] sq. O. pp. 54. 25 *cts.*

—— Picturesque B. & O.; historical and descriptive; by J. G. Pangborn. Subscription ed. Chicago, 1883. sq. F. pp. (4) + 9–288. 94 *plates.*

—— Proceedings of railway meetings held in relation to the B. & O. and its extensions, branches and connections at Pittsburg and elsewhere, and the remarks of John W. Garrett, president. [Baltimore,] 1870. O. pp. 31. 1 *fold. map.*

—— Summer excursion routes and rates, via picturesque B. & O. 1890–93. Baltimore, [1890?–93?] 3 vols. O.

—— Reply of John W. Garrett, president of the B. & O., to Wm. H. Vanderbilt, president of the New York Central, Sept. 30, 1881. n.p., [1881?] O. pp. 20.

——Who they were and what they said: the Staten Island banquet, to the president and exec-

utives of the B. & O. [N. Y.? 1885?] sq. O. pp. 103. 3 *maps.*
Cover title.

—— The World's Fair via B. & O.; the sight-seeing route to Chicago; by Henry P. Phelps. Baltimore, 1893. sq. O. pp. 92. 63 *cts.*, 2 *maps.*

—— Ghega, C. Die Baltimore-Ohio-Eisenbahn über das Alleghany-Gebirg, mit besonderer Berucksichtigung der Steigungs- und Krummungsverhältnisse. Wien, 1844. O. pp. (7) + ix-xvi + 264 + (1). 2 *figs.*, 1 *fold. map*, 15 *fold. tables* and *Atlas of* 19 *plates.* obl. F[4].

—— History (A) and description of the Baltimore and Ohio rail road, by a citizen of Baltimore. Baltimore, 1853. O. pp. 200. 6 *ports.*, 1 *fold. map.*

—— Long, S. H. *and* McNeill, W. G. Narrative of the proceedings of the Board of Engineers of the B. & O R R. from its organization to its dissolution, together with an exposition of facts, illustrative of the conduct of sundry individuals. Baltimore, 1830. O. pp. vi + (2) + 9-189 + (2) + 3-95.

—— Varle, C. A complete view of Baltimore; to which is added a detailed statement of an excursion on the B. & O. R. R., to the Point of Rocks, giving an interesting description of said road. Baltimore, 1833. T. pp. vi + (1) + 9-166. 4 *plates*, 1 *fold. map.*

Baltimore and Philadelphia—Philadelphia—*Select and Common Councils.* Report of the joint committee on railroads, on the bills entitled: An ordinance relative to the construction of the B. & P. R. R. and Schuylkill River East Side R. R., made to Councils, June 18th, 1885. [Philadelphia, 1885?] O. pp. 33. 1 *map.*

Baltimore and Susquehanna. 3, 8, 9, 12, 13 annual report of the directors to the stockholders. Baltimore, 1830-40. 5 vols. O.

Bangor and Piscataquis. Reports of the directors and treasurer, from Dec. 1, 1876, to Jan. 1, 1878; Jan. 1 to Dec. 31, 1879. Bangor, 1878-80. 2 vols. O.

Barre and Worcester. Report of a committee of the directors, showing the estimated cost of the contemplated road, its sources of business, and advantages to the stockholders and public. Barre, 1847. O. pp. 8.

Bear Mountain. Reports, by E. F. Johnson and W. R. Casey, civil engineers; and on the coal and iron ores of the Bear Valley coal basin, by J. Hall; also, an appendix containing the charter of the company. N. Y., 1845. O. pp. viii + 88. 3 *fold. maps.*

Bedford—Massachusetts—*Senate.* Report of special joint committee on an act to incorporate the Bedford railroad company. n.t.p. [1846.] O. pp. 5.

Bellaire, Zanesville and Cincinnati. Prospectus, March 1, 1882; compiled by E. Hulbert. Wheeling, 1882. O. pp. 23. 1 *fold. table.*

Bellefontaine and Indiana. 1st annual report of the president and directors, statement of the treasurer, and report of the chief engineer, Jan. 1851. Sidney, O., 1851. O.

—— Report on the preliminary surveys for the B. & I. R. R., by W. Milnor Roberts, Jan. 22, 1850. Pittsburgh, 1850. O. pp. 40.

—— *and* **Indianapolis, Pittsburgh and Cleveland.** 7th joint annual report of the directors to the stockholders, for 1862. Cleveland, 1863. O.

Boston and Albany. 1st-21st annual report of the directors to the stockholders, Jan. 1869-88. Springfield, Boston, 1869-88. 19 vols. O.
Lacking reports 3 and 13

—— Reply to the charges against the managers of the B. & A. in a report made to the Legislature, by one of the state directors; by the vice-president of the company, made to the stockholders, Feb. 9, 1876. Boston, 1876. O. pp. 22.

—— Reply to the complaints urged before the legislative committee on railroads, in relation to the management of the B. & A.; by [D. W. Lincoln] the vice-president of the company, Feb. 25, 1875. Boston, 1875. O. pp. 28.

—— Resolutions passed at a meeting of the stockholders held July 15th, 1880, suggested by the death of its late president, Daniel Waldo Lincoln, and memorial addresses. n.p., n.d., [Springfield, Mass., printed, 1880?] O. pp. 11.

—— Statement made before the legislative committee on railroads in relation to a consolidation of the B. & A. and Boston & Providence corporations, and the removal of the Beach street passenger station of the B. & A.; by [D. W. Lincoln] the president, March 3, 1880. Boston, 1880. O. pp. 14.

—— Jackson, W. Lecture on railroads; delivered Jan. 12, 1829, before the Massachusetts Charitable Mechanic Association. Boston, 1829. O. pp. 32.
This and the four next following in vol. "Railroad from Boston to the Hudson river. Pamphlets."

—— Massachusetts—*Board of Directors of Internal Improvements.* Report of Mr. Baldwin, on the rail-road surveys from Boston to the Hudson river; of Mr. Hayward, on the rail-road surveys between Boston and Providence; Mr. Willard's report on the cost of stone for the rail-road. n. t. p. [Boston, 1828.] O. pp. 119. 6 *fold. plans.*

—— Report on the practicability and expediency of a rail-road from Boston to the Hudson river, and from Boston to Providence; to which are annexed, the reports of the engineers, with

plans and profiles of the routes. Boston, 1829. nar. O. pp. 76.
Boston and Albany R. R. route, etc. Another copy of this and one preceding, in vol. "Boston and Providence R. R. Pamphlets. 1."

—— —*Senate.* Report of the Board of commissioners, for the survey of one or more routes, for a railway from Boston to Albany. Boston, 1828. O. pp. 56.

—— New York—*Senate.* Report of the commissioners appointed under the act of April 15, 1828, relative to the construction of a railroad from Boston to the Hudson river. n. t. p. [Albany? 1829.] O. pp. 29 + 47-64. 2 *fold. tables.*

Boston and Chicago Railway Trust Company. Bay State transportation league: a bill to incorporate the B. & C. Ry. Trust Co., to be presented to the Mass. legislature of 1875. Boston, 1874. O. pp. 32.

Boston and Lowell. [1st] report [to the stockholders] Nov. 30, 1837, presented at the annual meeting Jan. 3, 1838. Boston, 1838. O.

—— 14th annual report to the legislature of Massachusetts. n.t.p., 1844. O.

—— Argument of Charles G. Loring, on behalf of the remonstrance of the B. & L. against the petition of J. S. Cabot and others for a railroad from Salem to Lowell, before the joint committee on railroads and canals, Feb., 1848. n.p., n.d. [1848?] O. pp. 38.
Cover title.

—— Remonstrance in the matter of petitions for leave to construct rail roads between Lowell and Andover. Jan. 11, 1845. n.p., n.d. [1845.] O. pp. 6.
Cover title.

Boston and Maine. Annual report of the directors to the stockholders, for the year ending May 31, 1853, December 8, 1875. Boston, 1853-75. 2 vols. O.

—— Report of the committee of investigation appointed by the stockholders at a meeting held at Exeter, N. H., May 28, 1849. Boston, 1849. O. pp. 79.

Boston and Providence. Report of the directors, presented at the annual meeting of the stockholders, June 6, 1849; together with a report of the examining committee of the stockholders. Boston, 1849. O.

—— Report of the Board of directors for the year ending Sept. 30, 1875-1883. Boston. 1875-83. 7 vols. O.
Lacking 1880 and 1882.

—— Report of the Board of directors to the stockholders, submitting the report of their engineer, with plans and profiles, and estimates of the cost; to which are annexed the acts of incorporation. Boston, 1832. O. pp. (3) + 7-87. 1 *fold. map,* 1 *fold. plan.*

—— Report of the committee for investigating the affairs of the B. & P., appointed by the stockholders, Jan. 14, 1857. Boston, 1857. O. pp. 23.

—— Massachusetts—*Board of Commissioners of Internal Improvements.* Report in relation to the examination of sundry routes for a railway from Boston to Providence; with a memoir of the survey. Boston, 1828. O. pp. 72. 1 *fold. map.*
In vol. "Boston & Providence R. R. Pamphlets. 1."

Boston and Worcester. [1st]-38th annual report of the directors. Boston, 1832-67. 26 vols. O.
Lacking reports, 1834-39, '42, '43, '46-48, '52, '57
1st report "Report of the directors to the stockholders, together with the report of John M. Fessenden (chief engineer), and a plan and profile of the location of the road."
2nd: "Presented at a special meeting, Jan. 18, 1833."

—— 13th, 14th, 17th annual report, to the legislature of Massachusetts. Boston, 1845-49. 3 vols. O.

—— The act of incorporation and by-laws. Boston, 1831. S. pp. 18.
This and the five next following in vol. "Boston and Worcester. Pamphlets. 1."

—— Communication by the directors to the stockholders in relation to the late award of commissioners and the strictures of the president of the Western railroad thereon. Boston, 1860. O. pp. 72.

—— Memorial and remonstrance to the Senate and Representatives of Massachusetts [against petition of the Seekonk Branch railroad: Boston, Feb. 23, 1838.] n. p., n.d. O. pp. 20.

—— Proceedings Jan. 12, 1846, with the communication of the president of the corporation, on the subject of the proposed union with the Western rail-road. Boston, 1846. O. pp. 26.

—— Report of a committee of directors, on the proposition of the directors of the Western rail-road, to reduce the rates of fare and freight on the two railroads. Boston, 1840. O. pp. 32.

—— Report of the committees of the B. & W. and Western railroad corporations on the subject of uniting the two railroads; also, the report of a committee of the stockholders of the B. & W., instructed to inquire into the pecuniary condition and property of the B. & W. and Western railroads, with several statements appended thereto. Boston, 1846. O. pp. 54.

Boston, Barre and Gardner. 1st-16th annual report of the directors to the stockholders, Feb. 1870-74; Jan. 1875-85. Worcester, 1870-85. 15 vols. O.
Lacking 10th report.

Boston, Clinton, Fitchburg and New Bedford. Detailed statement, giving its history, location and the consolidations which have re-

sulted in the formation of the present corporation; also statement showing the present financial condition of the consolidated company: June 1st, 1876. Fitchburg, 1876. O. pp. 16. 1 *map.*

Boston, Concord and Montreal. 13th annual report of the directors, May, 1859. Concord, 1859. O.

Boston, Hartford and Erie. Papers relating to the State loan, 1868. Boston. 1868. O. pp. 53.

—— Testimony of J. W. Brooks before the committees on railroads of the legislature of Massachusetts, March 29, 1870. Boston, 1870. O. pp. 46

"Grades upon the B. H. & E. compared with those on the B. & A.: through business: coal traffic: local business: cost and debts: etc."

Boston, Norwich and New London. Acts of Connecticut and Massachusetts legislatures incorporating the B., N. and N. L. R.R. n.t.p. O. pp. 27.

Latest date mentioned, 1838.

Brunswick and Albany. Circular; Henry Clews & Co., New York. n.p., n.d. O. pp. 31. 2 *fold. maps.*

This and three next following in vol. "Brunswick and Albany. Pamphlets."

—— Original charter, with amendments thereto. Atlanta, Ga., 1871. O. pp. 32.

—— [Report of speeches at the opening of the offices of J. E. Conant and Co., railway contractors, Wall st., N. Y.] n.t.p. O. pp. 14.

Cover title: "Brunswick and Albany railroad company." p. 3. headed: "An interesting railroad gathering."

—— Financial (The) history and condition of the State of Georgia, together with a special history of the B. & A. R. R.: bankers and financial agents of the State of Georgia, Clews, Habicht & Co., London. N. Y., 1870. O. pp. 20.

Brunswick and Florida. Report of the president, with the proceedings of the stockholders, at their annual meeting, held at Brunswick, Georgia, May 3, 1855: to which are added, the charter of the B. & F. R. R. with the amendments thereto. N. Y., 1855. O. pp. 59.

Brunswick Canal and Railroad (*Georgia*). Report; with an appendix containing the charter and Commissioners' report; by Loammi Baldwin. Boston, 1837. O. pp. 48.

Buffalo and Mississippi. Report showing the cost and income of a rail-road as surveyed from Toledo, Ohio, to Chicago, Illinois, incorporated as the B. & M. R. R.; by Geo. R. Baldwin: with an appendix containing the acts of incorporation, passed by the States of Ohio and Indiana. Toledo, Ohio, 1847. O. pp. 118. 1 *fold. map.*

Buffalo and Pittsburgh. Reports of E. R. Blackwell, chief engineer, with maps, profiles, etc.; together with a communication from the president, in relation to its condition and business prospects, May, 1854. Buffalo, 1854. O. pp. 55. 2 *fold. maps.*

Buffalo, Corning and New York. [In the matter of the B. C. & N. Y. R. R.; its financial condition, etc: to the Railroad Commissioners of the State of New York.] n.t.p., [1856.] O. pp. 8.

Buffalo, New York and Erie. 1st–4th annual report, Oct. 1, 1859–Sept. 30, 1862. Buffalo, 1859–62. 4 vols. O.

—— By-laws as adopted by the directors, Jan. 19, 1858. Buffalo, 1858. D. pp. 11.

—— [Circular, to holders of receipts for coupons of June 1, 1858, for bonds of the B., N. Y., & E. R. R.] [Buffalo, Mar. 30, 1861]. sq. O. broadside.

—— [Contract, between A. D. Patchin and others, for uniting the B., N. Y., and E. and the railroad running from Corning to Batavia.] n.p., [1857?] nar. F. pp. 3.

Buffalo, New York and Philadelphia. 1st–5th annual report for the year ending Sept. 30th, 1883–1887. Philadelphia, N. Y., 1884–88. 5 vols. O.

5th report "and of the receiver during his administration, from May 21, 1885 to November 30, 1887."

Buffalo, Pittsburgh and Western. Annual report, for 1881–82. Philadelphia, 1882–83. 2 vols. O.

Burlington and Missouri River. [Annual] report of the directors to the stockholders, for the year 1873. Boston, 1874. O.

—— The great North Platte region of B. & M.: best government lands still open for settlement. n. p., n. d. O. pp. 32. 7 *cts.*, 1 *fold. map.*

Cover title.

—— The North Platte lands of the B. & M. in Nebraska. Burlington, and Lincoln, n.d. O. pp. 15. 3 *cts.*, 1 *fold. map.*

Cover title.

—— Trust mortgage, July 1, 1878, for $14,000,000, to New England Trust Co. n. p., [1878?] O. pp. 22.

Cover title.

Burlington, Cedar Rapids and Minnesota. [Circular letter from the president to Messrs. Henry Clews & Co., New York: "I have the pleasure to inform you that the entire line is graded and bridged from Vinton to Waterloo."] Cedar Rapids, May 16, 1870. broadside. sq. Q.

—— [Circular letter to the bondholders of the company from the Board of directors.] Cedar Rapids, Dec. 1, 1873. sq. Q. pp. (3).

—— Comparative statement of earnings. 1871, 1872. n.p., n.d. broadside. obl. T.

—— First mortgage seven per cent. gold bonds: Henry Clews & Co. n.p., n.d. broadside. sq. Q.

—— *Same;* on a completed and trunk line, at 90 and accrued interest in currency: Henry Clews & Co. N. Y., May 1st, 1871. sq. Q. pp. (4).

—— First mortgage seven per cent. gold convertible sinking fund bonds; confidential: Henry Clews & Co. N. Y., n.d. broadside. sq. Q.

—— *Same;* January interest: Henry Clews & Co. N. Y., n.d. broadside. sq. Q.

—— First mortgage seven per cent. gold sinking fund bonds, interest payable Feb. and Aug. in New York: Henry Clews & Co. N. Y., n.d. broadside. sq. Q.

—— Further advance in the price of B., C. R. & M. first mortgage bonds, to 95 and interest in currency: Henry Clews & Co. N. Y., May 6th, 1872. broadside. sq. Q.

—— The most desirable investment in the market; first mortgage convertible sinking fund bonds of the B., C. R. & M.: Henry Clews & Co. N. Y., Aug. 25th, 1870. broadside. sq. Q.

—— Seven per cent. first class gold bonds: Henry Clews & Co. N. Y., [1869?] O. pp. (6) + 36.

—— *Same.* N. Y., [1869?] O. pp. (5) + 3–36. 1 *fold. map.*

—— *Same.* N. Y., [1870?] O. pp. (10) + 36. 1 *fold. map.*

—— Seven per cent. first mortgage gold bonds, on a completed road: Henry Clews & Co. N.Y., [1871?] O. pp. (4) + 5–29. 1 *fold. plate*, 1 *fold. map.*

—— Supplementary circular; Sept.; Nov.; Dec. 16, 1871; Feb. 1872. 4 broadsides. sq. Q.

Burlington, Cedar Rapids and Northern. Story (The) of that lease: a hitherto unwritten chapter of inside railway history. n. p., [1885?] S. pp. 38.
"From the *Sunday graphic*, May 31, 1885."

Calabasas, Tucson and North Western. Prospectus. N. Y., 1885. O. pp. 12. 1 *fold. map.*

California and Nevada. Report of the president. n.p., n.d. [188–?] F. pp. 12.

California Pacific. Annual report of the president to the stockholders, at the annual election, July 15th, 1874. San Francisco, 1874. O.
Report suppressed.

Camden and Amboy. 1st joint report of the associated Delaware & Raritan canal co., C. & A. R. R. & transportation co., and New Jersey R. R. and transportation co., to the stockholders. April, 1867. Philadelphia, 1867. O.

—— Acts relative to the C. & A. R. R. & transportation co. n. p., 1832. O. pp. 30.

—— *Same.* Princeton, 1840. O. pp. 44.

—— An investigation into the affairs of the Delaware and Raritan canal and C. and A. R. R. companies, in reference to certain charges by "a citizen of Burlington." Dec., 1848. Newark, N. J., 1849. O. pp. (2) + 5–78.

—— Lease and contract between the Delaware & Raritan canal co., the C. & A. R. R. & transportation co., the New Jersey R. R. and transportation co., and the Philadelphia & Trenton R. R. co., parties of the first part and the Pennsylvania R. R., party of the second part. Philadelphia, 1871. O. pp. 23.

—— Report of the committee appointed to offer to the State of New Jersey the Delaware and Raritan canal and feeder, and the C. & A. R. R., with their appendages; made to the stockholders April, 1836. Princeton, 1836. O. pp. 37.

—— Additional reasons why the bill introduced into Congress to authorize a new line of railway communication between New York and Philadelphia should be sustained. Washington, 1864. O. pp. 8.

—— Free and exclusive legislation: a commentary on the Camden and Amboy company's last pamphlet, entitled "Free railroads"; by a Jerseyman. Trenton, 1861. O. pp. 24.

—— Free railroads; review of the N. J. railroad co's. pamphlets, on a system of free railroads. Trenton, 1861. O. pp. 37.

—— General (A) railroad system for New Jersey, and a main trunk double-track railway for the nation, and an examination of the alleged monopoly of the Camden and Amboy R. R. co.; being a correspondence between citizens of New Jersey and John P. Jackson, with legal opinions of Jos. C. Hornblower, A. Dutcher, Peter D. Vroom. Newark, 1860. nar. O. pp. 44. 1 *fold. map.*

—— *Same.* Newark, 1860. O. pp. 38. 1 *fold. map.*

—— Late (The) Camden and Amboy railroad accident: a review of the C. & A. company's report on the accident of the 29th Aug. 1855; by a Burlingtonian. Burlington, 1855. O. pp. 16. 1 *fold. plate.*

—— Letters to the people of New Jersey, on the frauds, extortions and oppressions of the railroad monopoly; by a citizen of Burlington. Philadelphia, 1848. O. pp. 64.

—— New Jersey—*Judiciary Committee of Council.* [Minority report: relating to the difference of opinion existing between the Treasurer of the State and the Delaware and Raritan Canal and C. and A. R.R. companies, on the subject of transit duties.] n. t. p. [Feb. 18, 1842.] O. pp. 8.

—— — *Legislature.* Report of commissioners appointed to investigate charges made against the directors of the Delaware and Raritan canal and C. and A. R.R. and transportation companies. Trenton, 1850. O. pp. 79.

—— Opinions of counsel, on the rights vested in the Delaware and Raritan canal and Camden and Amboy railroad and transportation companies, by the acts of the State of New Jersey passed in relation to them. Princeton, N. J., 1835. O. pp. 24.

—— Review (A) of an address of the joint board of directors of the Delaware and Raritan canal and Camden and Amboy railroad companies, to the people of New Jersey; by a citizen of Burlington. Philadelphia, 1848. O. pp. 83 + (1).

—— Review of the report of the late commissioners for investigating the affairs of the joint companies; and of the operations of the managers of those companies; by a citizen of Burlington. Philadelphia, 1850. O. pp. 78.

—— Stockton, R. F. Appeal to the people of New Jersey, in relation to the existing contracts between the State and the united Delaware and Raritan canal and C. & A. R.R. companies. Sept. 24, 1849. 2nd. ed. Princeton, 1849. O. pp. 29.

—— — Defence of the system of internal improvements of the State of New Jersey; by the president of the Delaware and Raritan Canal co. Philadelphia, 1864. O. pp. 16.
Cover title.

—— — [Letter: to the editors of the *New York evening post.*] Princeton, May 25, 1864. O. pp. 3–26.
Title page lacking.

—— Tatham, G. N. An exposition of the character and management of the New Jersey joint monopolies, the Camden and Amboy railroad and transportation company, the Delaware and Raritan canal company, and their appendages. Philadelphia, 1852. O. pp. 32.

Camden and Atlantic. Annual report of the Board of directors to the stockholders, for 1875, 1876. Philadelphia, 1876–77. 2 vols. O.

—— Rogers, A. J. Speech on a bill to authorize the Camden & Atlantic and the Raritan and Delaware Bay railroads, to transport passengers and merchandise across the State from New York to Philadelphia, in violation of the laws of the State and the decision of her courts; delivered in the House of Representatives, Mar. 22, 1864. Washington, 1864. O. pp. 16.

Canajoharie and Catskill. Report on the surveys of a route for the proposed C. & C. R.R. with an estimate of its cost. N. Y., 1831. O. pp. 23.

—— New York (*State*)—*Assembly.* Report of the Committee on rail-roads upon several petitions for legislative aid to C. & C. R.R. n.t.p. [Feb. 13, 1838.] nar. O. pp. 16.

Catawissa. 5th annual report, for 1864. Philadelphia, 1865. O.

Central Ohio. Address to the people of Muskingum county, on the subject of a subscription by the county and by the town of Zanesville to the stock of the C. O. R. R. Zanesville, O., 1848. O. pp. 30.
Cover title.

—— Report of Mr. Bollman, in relation to the C. O. R. R., and remarks of Mr. Done, upon the influence to be exercised by the opening of the [C. O. R. R.] Baltimore, 1851. O. pp. 15.

Central Railroad and Banking Company of Georgia. 52d report of the president and directors, including statements of Montgomery and Eufaula ry., Eufaula and Clayton ry., Columbus and Western ry., and Ocean Steamship company; 1887. Savannah, 1887. O.

—— Georgia—*Legislature.* Acts incorporating the C. R. R. & B. C. of Ga., together with amendments and supplementary acts. Savannah, 1873. O. pp. 46.

Central Railroad of Iowa. Report of committee to bondholders, [on the financial condition of the road.] Boston, 1874. O. pp. 16.

Central Railroad of New Jersey. 8, 13, 14, 16, 19 annual report of the Board of directors to the stockholders. Apr. 1, 1855; Jan. 1, 1860–66. N. Y., 1855–66. 5 vols. O.

—— [Fernon, T. S.] How two New Jersey railways were wrecked; B. Williamson, ex-chancellor, among the wreckers. The C. R. R. of New Jersey; the New Jersey Southern R. R. n.t.p. [Dec. 15, 1877.] O. pp. 32.

Central Railroad of Tennessee—Tennessee—*Chief Engineer.* Report on the surveys and examinations for the Central railroad and for the central turnpike. Nashville, 1837. O. pp. 60.

Central Vermont. Report of the directors to the stockholders, for the year ending June 30th, 1889. St. Albans, Vt., 1889. O.

Chesapeake and Ohio Railroad. 1st, 2nd, 5th annual report of the president and directors to the stockholders, Nov. 26, 1868; Nov. 25, 1869; Dec. 1872. Richmond; N. Y., 1869–73. 3 vols. O.

—— Central trunk line to the West: a statement showing the superiority of the C. & O. R.R.; Fisk & Hatch, N. Y. N. Y., Jan., 1870. O. pp. 27. 1 *fold. map.*

—— *Same.* N. Y., Feb. 1870. O. pp. 28. 1 *fold. map.*

—— [Circular, offering C. and O. R. R. bonds for sale; Fisk & Hatch.] n. t. p. N. Y., Mar. 23, 1870. O. pp. (3).

—— Loan of the C. and O. R. R.; Fisk & Hatch. N. Y., Feb. 15, 1870. O. pp. (2) + 5-14 + (1).

—— A short, economical and profitable line from the Atlantic coast to the great West; Fisk & Hatch. N. Y., Jan. 1872. O. pp. (2) + 5-31.

—— Supplement to circular of Aug. 1, 1874: to the bondholders and creditors of the C. and O. R. R.; Fisk & Hatch. N. Y., Sept. 10, 1874. D. pp. 19.

Chesapeake and Ohio Railway. 1st, 2nd, 6th–9th annual report of the president and directors, to the stockholders at their annual meeting, Jan. 1879–Dec. 1886. Richmond, 1879–87. 6 vols. O.
9th and 10th report F., folded to nar. O.

—— The C. & O. ry. and connections through from Newport News and Richmond, to Lexington, Louisville, Memphis, Cincinnati, Columbus and Chicago; Fisk & Hatch. N. Y., Nov. 16, 1881. O. pp. 18.
Cover title.

Chesapeake, Ohio and Southwestern. 3rd–5th annual report, for 1884–86. [N. Y., 1885–87.] 3 vols. F., folded to nar. O.

Cheshire. 5th, 37th, 38th, 40th–43rd annual report of the directors. Keene, Boston, 1850–88. 7 vols. O.

Chicago and Alton. General report of the receiver of the St. Louis, Alton & Chicago R.R. to trustees of bondholders, with report of the C. & A. R.R. from 16th Oct. to 31st Dec. 1862. Chicago, 1863. O.

—— 2nd, 7th, 10th–12th, 14th, 15th. 18th–31st annual report of the president and directors. Chicago, 1865–94. 21 vols. O.

—— American Institute of Homeopathy: semi-centennial jubilee meeting in Denver, Colo., June 14 to 22, 1894: railroad arrangements and itinerary. n.p., n.d. obl. T. pp. 15. 11 *cts.*

—— Chicago post office: arrival and closing of mails. Chicago, 1894. O. pp. 64.
"With the compliments of the Passenger department of the C. & A. R.R."

—— [Circular announcing decision of directors to extend the road from Joliet to Chicago.] n.t.p. [Chicago, July 29, 1863.] O. pp. 4.

—— Local time tables, Oct. 7, 1894. Chicago, 1894. O. pp. 15. 1 *map.*

—— A parody on Patience; by D. Dalziel, illustrated by H. W. McVickar. N. Y., n.d. sq. O. pp. (21) + (56) 32 *cts.*

—— The present duty of every good citizen: do not neglect a visit to the Drainage canal. [Chicago, 1894.] folder. sq. T. 5 *cts.*

—— Summer tours at reduced rates; season of 1892. Chicago, [1892?]. D. pp. 24. 18 *cts.*, 1 *map*, 1 *fold. map.*

—— Time table, no. 144, to take effect Sunday, Oct. 7, 1894. [Chicago, 1894.] O. pp. (4) 2 *cts.*

—— Time table, [&c]. Chicago, July, 1894. folder. nar. O.

—— World's Fair: its beauty, magnificence, and magnitude. Chicago, Oct. 1893. folder. nar. O.

—— You must know: circular no. 4029. n.t.p. Chicago, Feb. 1894. O. pp. (4). 4 *cts.*

Chicago and Canada Southern. Prospectus and other documents. N. Y., 1872. O. pp. 40. 1 *fold. plate*, 1 *fold. map.*

Chicago and Eastern Illinois. Annual report of the president and directors to the stock and bondholders, for the year ending Aug. 31, 1879, '80; June 30, 1882, '84. Chicago, 1879–84. 4 vols. O.

Chicago and Great Eastern. [Prospectus.] n.t.p. [N. Y., 1863?] O. pp. 76. 1 *fold. map.*

Chicago and Michigan Lake Shore. Report to the bondholders and stockholders [by the directors], Dec. 31, 1874–Nov. 11, 1876. Boston, 1875–77. 2 vols. O.

—— Report of the receiver, Dec. 31, 1877. Boston, 1878. O.

—— Circular in relation to the bonds of the C. & M. L. S. R. R.; [by Chas. F. Adams, Jr.] Boston, 1873. O. pp. 15.

Chicago and Mississippi. Chief engineer's report, with the charter of the road and the amendments thereto. Oct. 1852. N. Y., 1852. O. pp. 46. 1 *fold. map.*

—— Statement by the directors as to the present condition of the road, March 15, 1854. N. Y., 1854. O. pp. 16.

Chicago and Northwestern. 3rd, 4th, 6th–8th, 17th, 22nd, 25th, 27th–30th annual report; June, 1862–May 31, 1889. Chicago, 1862–89. 11 vols. O.
7th and 8th reports combined.

—— Bonds. [N. Y., May 17, 1862]. O. pp. 10.

—— Circular to bond and stockholders. Jan. 21, 1861. N. Y., 1861. O. pp. 26.

—— Circular to the stockholders, June 20, 1864. Chicago, 1864. O. pp. 11.

—— Through passenger time tables and rates of fare; in force April 1st, 1872. No. 1. [Chicago, 1872.] folder. nar. D.

Chicago and Rock Island. Annual report of the president and directors to the stockholders

July 1, 1857, '59-April 1, '65. N. Y., 1857-65. 8 vols. O.

—— Circular of A. C. Flagg to the stockholders and bondholders. Dec. 1, 1857. N. Y., 1857. O. pp. 37.

Chicago and West Michigan. 1st annual report to the stockholders, for 1879. Boston, 1880. O.

Chicago, Burlington and Quincy. Report of the directors to the stockholders, [1855]; June 24, 1859-62, '69, '71; Feb. 25, 1874-76; for 1877-93. Chicago, 1855 [-94?]. 27 vols. O.

—— [Letters concerning the stock of the C. B. & Q. R. R.; collected by J. M. Forbes.] n.t.p. [Boston, 1889]. O. pp. 13.
From the Boston *Daily advertiser*, Jan 25, 1889.

—— Through train service. n.p., Feb. 1888. nar. S. pp. 15.

Chicago, Clinton, Dubuque and Minnesota. 1st annual report to the stockholders, Dec. 31, 1879. Boston, 1880. O.

Chicago, Danville and Vincennes. C. D. & V. R.R. Co.'s $2,500,000 first mortgage sinking fund gold bonds; W. B. Lang & Co., N.Y. N.Y., [1870.] O. pp. 27. 1 *fold. map.*

—— $300,000 first mortgage sinking fund seven per cent. gold bonds: [circular letter; Spencer, Vila & Co., Boston.] n.t.p. sq. O. pp. (1).

—— Security and profit of investment in the first mortgage sinking fund bonds: [circular letter; W. B. Lang & Co., N.Y.] n.t.p. [N.Y., 18—]. sq. Q. pp. (4). 1 *map.*

Chicago, Milwaukee and St. Paul. 14th, 16th, 18th-26th annual report. Milwaukee, 1878-90. 11 vols. O.

—— A brief description of C. M. & St. P. ry. [for the information of the European newspaper correspondents visiting the World's Columbian exposition.] Chicago, 1893. nar. O. pp. (32).
"In English, German, Scandinavian [Swedish], French."

—— Dells of the Wisconsin. n. t. p. folder. sq. O.

—— [Dining car: dinner menu.] n. t. p. D. pp. (4.)

—— Game and fish laws of Illinois, Wisconsin, Michigan, Missouri, Iowa, Minnesota, North Dakota and South Dakota: revised to Aug. 1, 1894. n. t. p [1894.] nar. T. pp. 16.

—— Local time tables, Nov. 1894. Chicago, 1894 sq. O pp. 34.

—— More facts about South Dakota; regarding agriculture sheep-raising, climate, soil, and its other resources. [Milwaukee, printed, 189-.] O. pp. 48. 14 *cts.*
Cover title.

—— Neue Thatsachen in Bezug auf Süd-Dakota, dessen fruchtbares Land und dessen wundervolle Ernten und unerschöpflichen Naturreichthum. n.p., n.d. O. pp. 14.
Cover title.

—— Shooting and fishing on the lines of the C. M. & St. P. n.p., n.d. sq. S. pp. 72. 10 *maps.*

—— Solid vestibule trains. n.p., n.d. D. pp. (8). 13 *cts.*
Cover title.

—— Summer tours: guide to summer resorts. n.p., n.d. sq. O. pp. 21. 1 *fold. plate.*
Cover title.

—— A tale of nine cities: something worth having and keeping. n.p., n.d. sq. Tt. 9 *plates.*
Cover title.

—— Three decisive battles, and who fought them: Shiloh, Gettysburg and Chattanooga; compiled by Thomas F. Nelson. Chicago, 1887. sq. S. pp. 32. 1 *fold. map.*
Grand Army souvenir.

—— [Time table &c.] n. p., 1888. folder. nar. O.

—— *Same.* n.p., 1894. folder. nar. O.

—— Tourists' guide to summer homes in Wisconsin, Minnesota, Iowa and Dakota. Milwaukee, 1884. O. pp. 40. 25 *cts.*, 3 *fold. maps.*

—— Where to hunt the deer. n.p., n.d. D. pp. (8).
Cover title.

—— The why and wherefore of common things. Chicago, 1886. sq. T. pp. 48. 1 *fold. map.*

Chicago, Rock Island and Pacific Railroad. Annual report of the directors to the stockholders, April 1, 1876-1880. Chicago, 1876-80. 5 vols. O.

Chicago, Rock Island and Pacific Railway. 1st, 2d, 5th, 7th, 11th annual report of the directors to the stockholders, April 1, 1881, '82, '85, '87, '91. Chicago, 1881-91. 5 vols. O.

Chicago, St. Paul and Fond du Lac. 1st, 2d annual report, Sept., 1855, May, 1857. N. Y., 1855-57. 2 vols. O.

—— Charter, consolidated from the Illinois and Wisconsin R. R. and the Rock Valley Union R. R. under the laws of Illinois and Wisconsin. N. Y., 1855. O. pp. 106.

—— Documents relating to the land grant extension. N. Y., 1857. O. pp. iv + 167.

—— Exhibit, March 1, 1856. n. p., n. d. O. pp. 30. 1 *fold. map.*

—— [Prospectus offering] for sale $1,000,000 of their 30 years 7 per cent. first mortgage convertible bonds. [N. Y., 1855.] O. pp. 28.

Chicago, St. Paul, Minneapolis and Omaha. 3rd, 5th, 6th, 8th, 9th, 12th annual report, for 1883, '85, '86, '88, '89, '92. St. Paul, 1884-93. 6 vols. O.

Cincinnati, Dayton and Ironton. Lease, dated May 1, 1891, to Cincinnati, Hamilton and Dayton. n.t.p. [N. Y., printed, 1891?] O. pp. 14.

Cincinnati, Hamilton and Dayton. 2nd, 10th, 24th, 26th, 28th–30th, 32nd, 33rd, 38th annual report of the president and directors to its stockholders. 1852, '60, '71, '73 '75–77, '79, '80, '85. Cincinnati, 1852–85. 10 vols. O.
24th–38th. "Of the directors of the C. H. & D.; Dayton & Michigan; Cincinnati, Richmond & Chicago; and Cincinnati, Hamilton & Indianapolis."

—— Special report of the directors to the stockholders, for nine months ending Dec. 31, 1890. Cincinnati, 1891. O. pp. 24.

—— Statement of the existing controversy between the two lines of railroads from Cincinnati to Lake Erie. Cincinnati, 1854. O. pp. 15.
Dated, p. 3. "Office C. H. & D. R. R. June 26, 1854: to the stockholders."

Cincinnati, Hillsborough and Parkersburg. Report of the final location and probable cost, with some remarks on its advantages as the coal railroad of Cincinnati; by Ellwood Morris. Cincinnati, 1853. nar. O. pp. 52. 2 *fold. maps*, 2 *fold. tables.*

—— Report on the preliminary surveys; by Ellwood Morris. Cincinnati, 1852. O. pp. 48
Including report on the geology of the route, by W. W. Mather; and opinion on the route by the consulting engineer, B. H. Latrobe.

—— People's (The) railroad meeting: [report of a meeting at Hillsborough on completion of the railroad there.] n. t. p. F^5. pp. (1).
Extracted from the *Daily Hillsborough gazette*, Nov. 28, 1853.

Cincinnati, Indianapolis, St. Louis and Chicago. 8th, 9th annual report to the stockholders, for the year ending June 30, 1887–1888. Cincinnati, 1887–88. 2 vols. O.

Cincinnati Southern. The Ferguson railway act; views of the press, address of committees, action of Board of trade and Chamber of commerce, record of the case and opinion of Superior Court of Cincinnati and Supreme Court of Ohio. Cincinnati, 1872. O. pp. 122.

—— Cincinnati — *City Council.* Report of surveys ordered by the City Council to locate a railroad from Cincinnati to the Indiana state line; by James Stewart. Cincinnati, 1849. O. pp. 8.
Cover title.

—— Dickson, W. M. A memorial to the legislature of Ohio, and prayer for the repeal of the C. S. R. R. law. n. p., n. d. O. pp. 12.
Cover title.

—— Hollander, J. H. The C. S. ry.: a study in municipal activity. Baltimore, 1894. O. pp. 96. (Johns Hopkins University Studies in historical and political science; 12th series, 1–2. Jan.–Feb., 1894.)

Cincinnati, Wilmington and Janesville. Report, Jan. 1st, 1857. N. Y., 1857. O. pp. 31. 3 *fold. maps.*
Cover title.

Cleveland and Mahoning. Report, Jan. 1861. n.p., n.d. O. pp. 16.
Cover title.

Cleveland and Pittsburgh. 6th, 7th, 9th, 12th–16th annual report of the president and directors to the stockholders, presented at the annual meeting Jan. 1854, '55, '57, '60, '64. Cleveland, 1854–64. 8 vols. O.

—— Exhibit of the condition and prospects of the C. & P. R. R. n.t.p. [1850.] O. pp. 21. 1 *fold. map.*

Cleveland and Toledo. Report of the directors to the stockholders, June 1, 1857, '60, '63, '64. Cleveland, 1857–1864. 4 vols. O.

Cleveland, Cincinnati, Chicago and St. Louis. 1st, 2d annual report of the directors to the stockholders, July 1, 1890–91. Cincinnati, 1890–91. 2 vols. O.

Cleveland, Columbus, Cincinnati, and Indianapolis. 8th, 19th–21st annual report of the Board of directors to the stockholders, for 1875, '86–88. Cleveland, 1876–89. 4 vols. O.

Columbus and Xenia. 3rd annual report of the directors to the stockholders, for 1852. Columbus, 1853. O.

—— *and* **Little Miami.** Joint annual report. *See* **Little Miami.**

Columbus, Hocking Valley and Toledo. 7th, 8th annual report for 1887, 1888. Columbus, 1888–89. 2 vols. O.

Concord. 35th, 46th, 47th annual report of the directors, for the year ending March 31, 1876, '87, '88. Concord, N. H., 1876–88. 3 vols. O.

—— Reply of the directors to the report of the committee of investigation, 1857. Concord, 1857. O. pp. 44.

Concord and Claremont. 1st, 2d annual report of the directors to the stockholders, May, 1849, 1850. Concord, N. H., n.d. 2 vols. O.

Connecticut and Passumpsic Rivers. 1st, 2nd, 4th–10th, 12th, 13th, 16th, 17th, 19th–21st, 27th, 29th, 32nd, 33rd, 35th, 37th–39th annual report of the directors. Oct. 1846, '47, '49–55, '57, '58, '61, '62, '64–66, '72,' 74, '77, '78, '80, '82–84. Newbury, Boston, Windsor, 1846–84. 24 vols. D. and O.

—— Act of incorporation and by-laws. Newbury, Vt., 1846. S. pp. 23.

—— *Same.* Newbury, Vt., 1853. D. pp. 23.

—— Circular to the stockholders, Dec., 1851. n.p., n.d. [Boston, Dec. 9, 1851.] O. pp. 8.
Cover title.

—— Copy of an agreement between C. & P. R. R.R. and connecting roads, for the extension of the Passumpsic railroad to the Canada line. Hanover, 1858. O. pp. 8.

—— [Copy of lease between the C. & P. R. R.R., and the Boston & Lowell R.R., 1887.] n.t.p. O. pp. 14.

—— Copy of the opinions of Sidney Bartlett, of Boston, George W. Nesmith, of Franklin, N. H., in regard to the special guaranteed stock, issued by the C. & P. R. R.R. n.t.p. [Franklin, N. H., Jan. 25, 1858]. O. pp. (2).

—— Report to the stockholders [on the financial condition of the road]; March 19, 1856. Boston, 1856. O. pp. 7.
Cover title.

Connecticut River. 3rd, 4th, 8th–11th, 13th–15th, 22nd, 25th, 26th, 30th, 31st annual report of the directors to the stockholders; June 7, 1848, '49, Nov. '52–55, '57–59, '66, '69, Sept. '70, '74, '75. Northampton, 1848–75. 14 vols. O.

—— Account of the annual meeting, Jan. 20th, and of the special meeting, March 13th, 1858, with legal opinions. Springfield, Mass., 1858. O. pp. 13.

—— A circular addressed to the stockholders, March, 1858. Springfield, Mass., 1858. O. pp. 18.

—— A letter to the stockholders; by D. L. Harris, president. March 11, 1858. Springfield, Mass., 1858. O. pp. 15.

Connecticut Western. The north and south lines of the C. W. R.R. explained. Hartford, 1869. O. pp. 8. 1 *fold. map.*

—— Report of the chief engineer on the preliminary surveys, during 1867 and 1868, with estimates and maps; by Oliver W. Barnes. Fishkill, N. Y., [1868?] O. pp. 46. 2 *fold. maps.*

Consolidated Railroad of Vermont. Annual report, for the year ending June 30, 1889. n. t. p. [1889?] O.

Danbury and Norwalk. 12th annual report of the Board of directors to the stockholders, Aug. 25th, 1864. Danbury, 1864. O.
Inserted is a manuscript letter of J. W. Bacon, the treasurer and superintendent, dated 9 June, 1863, constituting a statement of the company's business for the year ending Aug. 1, 1862.

Danville, Urbana, Bloomington and Pekin. First mortgage, convertible sinking fund seven per cent. gold loan; Turner Bros., New York. n.t.p. N.Y., Jan. 1st, 1870. Q. pp.(2).

—— Seven per cent. gold first mortgage convertible bonds; Turner Bros., New York. n.t.p. N. Y., July 22, 1869. Q. pp. (2).

Dayton and Cincinnati. 1st–3rd annual report of the D. & C. short line. Cincinnati, 1852–55. 3 vols. O.
1st report "Cincinnati and Dayton."

Dayton and Michigan. 3rd annual report, for the year ending March 31, 1863. Cincinnati, 1863. O.

—— First exhibit, of the condition and prospects of their road. N. Y., 1852. O. pp. 23. 1 *fold. map.*

Delaware, Lackawanna and Western. 1st–9th annual report of the Board of managers to the stockholders, [for 1853–61.] N. Y., 1854–'62. 9 vols. O.

—— [Confidential circular to the stockholders, signed by Geo. D. Phelps.] n.t.p. [N. Y., Sept. 9, 1856.] O. pp. 14.

—— [Confidential circular to the stockholders, signed by Geo. D. Phelps.] n.t.p. [Jan. 17th, 1857]. O. pp. 12.

—— CORPORATE abuses and ecclesiastical absurdities; illustrated in a series of expositions of railroad mismanagement, [etc.] N. Y., 1864. O.
Six pamphlets paged separately, collected, with t.p. and general introduction. Titles of the three relating to railroads follow this title.

—— HISTORY of the recent investigation into the affairs of the D. L. & W. R.R., with remarks upon the report of the committee. N. Y., May 12, 1857. O. pp. iv + 88.
Cover title.

—— RAILROAD mismanagement and the dangers of exposing it, and the difficulty in correcting it; illustrated by a reference to recent events in the D. L. & W. R.R.; with sundry legal opinions and editorial comments upon the evils thus exposed. N. Y., 1859. O. pp. 30.

—— *Same.* N. Y., 1859. O. pp. (2) + 61.

—— REVIEW of the report of the committee of investigation into the affairs of the D. L. & W. R. R.; with a synopsis of the history of that investigation. N. Y., 1858. O. pp. (2) + 64.
Cover title.

Delaware, Lehigh and Wyoming Valley. [Reports on the survey of the route for a railroad from the Wyoming coal fields to the Delaware Water Gap.] n. t. p. [185–]. O. pp. 38.

—— *Same.* n. t. p. [185–]. O. pp. 40.

Denver and Rio Grande Railway. 1st annual report of the Board of directors to the stockholders, April 1st, 1873. Philadelphia, 1873. O.

—— Report to the stockholders, for the year 1880. Colorado Springs, 1881. O.

Denver and Rio Grande Railroad. 1st annual report, July 12th to Dec. 31st, 1886. Colorado Springs, 1887. O.

—— Across the continent by the scenic route. n.p., n.d. O. pp. (16). 8 *cts.*
Cover title.

—— "Around the circle": one thousand

miles through the Rocky mountains. [Chicago?] 1893. O. pp. 56. 27 *cts.*

This and the four next following in vol. "Denver and Rio Grande. Pamphlets. 1."

—— Official roster: equipment list and telegraph calls, no. 18, 19. March, April, 1891. n.p., 1891. 2 vols. S.

—— Rhymes of the Rockies; or, What the poets have found to say of the beautiful scenery on the D. & R. G. R.R., the scenic line of the world. 6th ed. Chicago, 1891. sq. O. pp. 64. 20 *cts.*

—— Rocky mountains to the Golden Gate; a tourist guide descriptive of territory between the eastern foothills of the Rockies and the Pacific coast; by Rev. John A. Gutteridge. n.p., n.d. O. pp. 71. 27 *cts.*

—— Scenic line of the world. n. p., 1894. folder. nar. O.

—— Tourists' handbook descriptive of Colorado, New Mexico and Utah. 10th ed. Chicago, [1892?] sq. O. pp. 56. 9 *cts.*, 1 *fold. map.*

Denver, South Park and Pacific. 1st annual report, for 1874, of the trustees, to its stockholders. N. Y., 1875. O.

Derby and State Line. A plea in behalf of the D. & S. L. R.R. N. Y., 1868. O. pp. 8. 1 *fold. map.*

Detroit and Milwaukee. Report to the stockholders, 1st Dec., 1858. n. p., n. d. O.

Detroit, Lansing and Northern. 1st, 3d, 4th annual report to the stockholders, for 1877, '79, '80. Boston, 1878–81. 3 vols. O.

Dubuque and Pacific. Articles of incorporation, entered into according to the provisions of the code of Iowa. Dubuque, 1855. O. pp. 16.

East Tennessee, Virginia and Georgia. 9th annual report of the officers to the stockholders, Nov. 27, 1878. Knoxville, Tenn., 1878. O.

Eastern. Report of the directors to the stockholders, Sept. 22, 1838; July, 1841, '42, '49; Nov. 1874, '75. Boston, Salem, 1838–76. 6 vols. O.

—— Act of incorporation and by-laws; incorporated April 14, 1836. Salem, 1836. D. pp. 42.

This and the thirteen next following, in vol. "Eastern Railroad. Pamphlets. 1."

—— Acts of incorporation, by-laws and officers; together with the annual report of the directors and the report of the engineer. Salem, 1839. O. pp. 36. 1 *fold. map.*

—— Report of a committee of the stockholders. n.t.p. [Boston, July 9, 1849.] O. pp. 6.

—— Report of the committee appointed at a meeting of the stockholders, to examine into the past doings and present conditions of said company. May 21, 1840. Boston, 1840. O. pp. 20.

—— Report on the surveys and definite location; by John M. Fessenden. Boston, 1836. O. pp. 18 + (1).

—— Statement of facts in relation to the E. R.R. n.t.p. [Boston, Mar. 1839.] O. pp. 4.

—— Massachusetts — *General Court.* An act to alter the line of the E. R.R., and an act to aid the construction of the same. Salem, 1837. D. pp. 12.

—— — Abstract of the arguments of Rufus Choate and Charles Theo. Russell, for the petitioners, for a railroad from Salem to Malden, before the committee on railways and canals. Boston, 1846. O. pp. (2) + 60 + xv.

—— — Argument of Charles G. Loring, on behalf of the E. R.R.; before the railroad committee of the Massachusetts legislature, March 7, 1845. Boston, 1845. O. pp. 88.

—— — Argument of E. H. Derby, in behalf of the E. R.R., before the rail-road committee of the Massachusetts legislature, Feb. 20, 1846. Boston, 1846. O. pp. 42.

—— — *House of Representatives.* Report and bill to aid the construction of the E. R.R. n.p., n.d. [Mar 22, 1839.] O. pp. 16.

—— — *Senate.* An act in addition to an act to aid the construction of the E. R.R. n.p., n.d. [April 18, 1838]. O. pp. 7.

—— — An act [in addition to an act to aid the construction of] the E. R.R. n.p., n.d. [Feb. 28, 1838]. O. pp. 6.

—— — [The committee on rail-ways and canals, instructed to "report the prominent facts in relation to the several routes proposed for an Eastern rail-road," report the following statement of facts.] n.t.p. [Mar. 30, 1836.] O. pp. 18.

Elizabethtown, Lexington and Big Sandy. 3rd–5th annual report, for 1884–1886. [N. Y., 1884–86.] 3 vols. F., folded to nar. O.

Erie. 1st–3rd annual report of the directors to the stockholders, for 1862–1864. N. Y., 1863–65. 3 vols. O.

—— Letter from S. H. Dunan, late general auditor of [the Erie ry.]; accompanied with an official statement made by him to the Board of directors, showing a true statement of the result of its operations for the year ending Sept. 30, 1873. N. Y., 1874. O. pp. 26.

—— The local press on the Erie ry. management. Jan., 1872. Albany, 1872. O. pp. 74.

—— Pocket time-table. n. p., Mar. 4, 1888. folder. nar. S.

—— *Same.* n.p., Jan. 1, 1888. folder. nar. O.

—— New Jersey — *Legislature.* Report of the investigating committee relative to the Bergen tunnel. Jersey City, 1865. O. pp. 15.

See also **New York and Erie,** and **New York, Lake Erie and Western.**

European and North American. Annual report of the directors, made for the year ending Sept. 30, 1881. Bangor, Me., 1881. O.

—— Plan for shortening the time of passage between New York and London, with documents relating thereto, including the proceedings of the railway convention at Portland, Maine; and the charter of the E. & N. A. ry., with the subsequent acts and resolves passed by the legislature of Maine, and the doings of the executive committee in relation thereto. Portland, 1850. O. pp. 155 + 13. 1 *fold. map.*

Evansville, Henderson and Nashville. 1st annual report to the stockholders' meeting, held March 18, 1868; with a statement of the affairs of the company. Hopkinsville, Ky., 1868. O.

—— The charter, with statement of the affairs and prospects of the company. Henderson, Ky., 1867. O. pp. (2) + 5–48.

Evansville, Indianapolis and Cleveland. Articles of association, organized May 12, 1853; to which is added the address of the president. Indianapolis, 1853. O. pp. (2) + 5–18.

Fall River. 3rd annual report of the directors to the stockholders, Jan., 1849. Fall River, 1849. O.

Fitchburg. 16th, 17th, 19th, 21st, 22nd, 24th, 33rd–35th, 37th–39th, 45th–47th annual report, made Jan., 1858, '59, '61, '63, '64, '66, '75–77, '79–81, '86–88. Boston, 1858–88. 15vols. O.

Fitchburg and Worcester. 2nd, 6th, 7th, 9th, 14th, 17th annual report of the directors, Jan., 1849, '53, '54, '56, '61, '64. Fitchburg; Worcester, 1849–64. 6 vols. O.

Flint and Holly. 2nd annual report of the Board of directors to the stockholders, for the year ending Sept. 29, 1866. Flint, Mich., 1867. O.

Flint and Pere Marquette. Annual report made to the stockholders, for 1867–70, '72–77, '79–94, Detroit; East Saginaw; N. Y., 1868–94. 24 vols. O.

Reports for 1879 and 1880 combined. From 1879 "embracing traffic reports of the road."

—— Consolidated mortgage, to the Central Trust company of New York, trustee; dated March 1, 1889. n.t.p. [1889.] O. pp. 33.

—— Copy trust deed and mortgage; dated Oct. 1, 1880. East Saginaw, Mich., 1880. O. pp. 12.

Cover title.

Fort Wayne and Southern. Report of an experimental survey of that part of the F. W. and S. R.R. between Fort Wayne and Muncie; by W. J. Holman; to which is appended the charter of incorporation, with a general act amendatory of corporations therein named. Indianapolis, 1852. O. pp. 16.

Fort Wayne, Jackson and Saginaw. Report of the directors to the stockholders, for 1876, including the reports of the president and general manager, and treasurer. Jackson, 1877. O.

Fort Wayne, Muncie and Cincinnati. Report of the president to the directors, for the year 1873. Boston, 1874. O.

Frederick and Pennsylvania Line. Report on the surveys of the proposed F. & P. L. R. R.; by Joseph S. Gitt. Baltimore, 1867. O. pp. 47. 2 *fold. maps.*

Fredericksburg and Gordonsville — VIRGINIA — *General Assembly.* Charter. n.p., n.d. O. pp. 8.

Latest date included, 1867.

Galena and Chicago Union. 8th, 10th, 13th, 16th, 17th annual report. June 1855, '57, '59, '62, '63. Chicago, 1855–64. 5 vols. O.

Galveston, Harrisburg and San Antonio. Annual report for 1885, 1886. n.p., n.d. 2 vols. F., folded to nar. O.

—— A brief statement, with a list of its directors and officers, trustees of bonds and mortgage, and report of treasurer. Boston, 1872. O. pp. 53. 1 *fold. map.*

—— TEXAS—*Legislature.* Charter and amendments thereto; together with a copy of loan laws, authorizing counties to aid in internal improvements, and extracts from the constitution and general laws of Texas. San Francisco, 1881. O. pp. 36.

Georgia Railroad and Banking Company. Reports of the directors to the stockholders in convention, May 12, 1880. Augusta, 1880. O. pp. (2) + 5–59.

Great Midland. [Prospectus.] Boston, 1850. O. pp. 11. 1 *fold. map.*

Cover title.

Great Northern. 1st annual report, year ending June 30th, 1890. St. Paul, Minn., 1890. O.

—— An atlas of the Northwest. n.p., n.d., sq. F. pp. (28). 6 *fold. maps.*

—— "The city of smokestacks": Everett, the new manufacturing and commercial city at the end of the G. N. ry. on Puget Sound. n.p., n.d. obl. T. 17 *cts.*, 1 *fold. map.*

—— The Evergreen state souvenir, containing a review of the resources, wealth, varied industries and commercial advantages of the State of Washington; by J. O. Hestwood, Chicago, 1893. O. pp. 72. 26 *cts.*, 1 *map*, 1 *fold. map.*

—— Minnesota, the Dakotas, Montana, Idaho, Washington, Oregon, California, Pacific coast: facts about a great country. n.p., n.d. folder. nar. O.

—— *Same;* corrected to Sept. 20, 1894. n.p., n.d. nar. O. pp. 79. 15 *maps*, 1 *fold. map.*

—— Valley, plain and peak; scenes on the line. St. Paul, Minn., 1894. sq. S. pp. 95. 45 *photo. engrs.*

—— Washington, the Evergreen state; scenes from her exhibit at the World's Columbian exposition, 1893. n. t. p. obl. Tt. pp. (13). 26 *photo. engrs.*

Great Southern. Circular: Georgia and Florida, a through line from Millen, Georgia, to Turtle Harbor, Florida, under one control and management. N. Y., 1871. O. pp. 90.

—— A trunk line between the North and the tropics, to within ninety miles of Havana, connecting at the nearest possible point with the West Indies, Central and South America. N.Y., 1878. O. pp. (2) + v-xiii + 267. 1 *fold. map.*

Great Western (*of 1859.*) 1st annual report of the directors to the stock and bond holders, for the year ending March 31st, 1860. Springfield, Ill., 1860. O.

Great Western Railroad of Illinois. Annual report of the directors to the stockholders, of 1st Oct. 1855. N. Y., 1855. O.

—— Minutes of the meetings of the creditors and bondholders, held Sept. 1st, 5th, 19th, 1857, together with the report of the committee appointed at the same. N. Y., 1857. O. pp. 12.

Groton. [Circular showing the importance of connecting the Concord and Fitchburg, by constructing a link in the chain of roads, which is now wanting between Nashua and Groton, Mass.] n.t.p. [1842?] O. pp. 7.

Hannibal and St. Joseph. Reports of the president, land and fiscal agents and chief engineer. St. Louis, 1855. O.

—— Report to the stockholders. Nov., 1859. Boston, 1859. O.

—— The H. & St. J. R.R. company have received by grant from Congress over 600,000 acres of the choicest farming and wood lands, the greatest portion of which is now in the market. Hannibal, Mo., 1860. O. pp. 60. 6 *plates*, 1 *map*, 1 *fold. map.*
Cover title has date 1859.

—— *Same.* Hannibal, Mo., 1860. O. pp. 60. 6 *plates*, 1 *map*, 2 *fold. maps.*

Hartford and New Haven. 1st–26th annual report of the Board of directors to the stockholders. New Haven; Hartford. 1836–61. 26 vols. O.

—— Charter, with amendments: also, charters of the Hartford and Springfield R. R., from the States of Connecticut and Massachusetts. Hartford, 1842. O. pp. 34.

—— Report of the engineer, upon the preliminary surveys. New Haven, 1835. O. pp. 30. 1 *fold. map.*

Hartford and Providence. [Report of the committee appointed at a meeting of the stockholders of the H. & P. R.R., in Hartford, Feb. 2, 1848, to consider the project for the construction of Rhode-Island and Connecticut Central R.R.] n. t. p. [Hartford, Feb. 16, 1848.] O. pp. 23.

Hartford and Springfield. Report of the engineer upon the several definite locations for the H. & S. R.R., with the acts of incorporation in Connecticut and Massachusetts. Hartford, 1841. O. pp. 32. 1 *fold. map.*

—— *Same.* 2nd ed. Hartford, 1841. O. pp. 32. 1 *fold. map.*

Hartford, Providence and Fishkill. 2nd, 3rd, 5th, 9th–12th annual report of the Board of directors to the stockholders, 1851, June 1852, Oct. 1854, '58–61. Hartford, 1851–61. 7 vols. O.

—— Charter of the H. P. & F. R.R., originally the Manchester railroad. Hartford, 1849. O. pp. 23.

—— Report of sundry directors to the stockholders, Feb., 1858. Hartford, 1858. O. pp. 31.

—— Report on surveys for the extension of the H. P. & F. R.R. from Waterbury to Fishkill. Hartford, 1853. O. pp. 62. 2 *fold. maps.*

Hillsborough and Cincinnati. Charter and by-laws. Cincinnati, 1849. O. pp. 41. 1 *fold. map.*

Holly, Wayne and Monroe. Copy of trust deed. n.t.p. [Jan. 2, 1871]. O. pp. 4.

Housatonic. 1st annual report of the Board of directors to the stockholders. New Haven, 1838. O.

—— Annual abstract of the books, for the stockholders, at their annual meeting, Feb., 1867. Bridgeport, 1867. O.

Houston and Texas Central. Statement by B. G. Clarke and Chas. Dillingham, receivers. New York, March 31, 1886. N. Y., 1886. O. pp. 20.

Hudson River. 2nd annual report of the directors to the stockholders, Aug. 29, 1849. N. Y., 1849. O.

—— Amended act of incorporation, by-laws, and extracts from revised statutes, &c. N. Y., 1847. O. pp. 54.

—— Communications from James Boorman to the stockholders, in reply to A. C. Flagg, late

president of that company. N. Y., 1849. O. pp. 12.
"From the *Evening post.*"

—— Hudson river, and the H. R. R.R.; the principal objects of interest upon the line. Boston, 1851. O. pp. 50. 13 *cts.*, 1 *fold. map.*

—— New York (*City*)—*Board of Aldermen.* Report of the special committee on the H. R. R.R. Sept. 7, 1850. N. Y., 1850. O. pp. (4). 1 *fold. map.*
Cover title.

Illinois Central. Report of the directors to the stockholders, March 16, 1853, '54, '56. N. Y., 1853-56. 3 vols. O., and sq. Q.

—— Report and accounts for 1856-58, '69, '72-77, '79-94. n.p., n.d. [1857-94.] 26 vols. F⁵., and F.

—— Documents relating to the organization of the I. C. R.R. 2nd ed. N. Y., 1852. O. pp. 148. 1 *fold. blank.*
In vol. "Illinois Central. Pamphlets. 1."

—— From the lakes to the gulf. [Chicago, 1884.] sq. F. pp. 125. 125 *cts.*

—— The I. C. R.R. company offer for sale over 2,400,000 acres selected prairie, farm and wood lands in tracts of any size, situated on each side of their railroad. N. Y., 1855. O. pp. 32. 1 *fold. map.*

—— The I. C. R.R. company offers for sale over 2,000,000 acres selected farming and wood lands, in tracts of forty acres and upwards, situated on each side of their rail-road. N. Y., 1856. O. pp. 64. 1 *map*, 1 *fold. map.*

—— The I. C. R.R. company offers for sale over 1,500,000 acres selected farming and wood lands, in tracts of forty acres and upwards, situated on each side of their railroad. Chicago, 1857. O. pp. 80. 6 *cts.*, 1 *plate*, 1 *map*, 1 *fold. map.*

—— The I. C. ry.: a historical sketch of the undertaking; with statistical notes on the State of Illinois, the cities of Chicago, Cairo, &c.; and a description of the railway, its route and lands. Lond., 1855. O. pp. (2) + 5-44.
This and the three next following, in vol. "Illinois Central. Pamphlets. 1"

—— [MS. copy of correspondence in the Treasury and War Departments, &c., relative to payment of the I. C. R.R. for services rendered during the war.] 1856-63. O. pp. (14.)

—— Minutes of proceedings of a meeting of shareholders, London, Feb. 11, 1858. n. t. p. F. pp. 19.

—— Report to the shareholders, June, 1858. Lond., [1858.] O. pp. 68.
Lacks pp. 5-6.

—— Sectional maps showing the location of over 2,500,000 acres, selected farming and wood lands, in the State of Illinois, belonging to and offered for sale by the I. C. R.R. company. Boston, 1862. O. 33 *plates.*
Cover title.

—— [Sketch of the origin and progress of the I. C. R.R.] n. t. p. [Chicago, Nov. 14, 1857.] O. pp. 18.
In vol. "Illinois Central. Pamphlets. 1."

—— The ten best states of America, for agriculture and general industries; traversed by the I. C. R.R. Cedar Rapids, Iowa, 1893. O. pp. 256. 41 *cts.*

—— United States—*Senate.* Message of the president of the United States, relative to the transmission of the mail and munitions of war over the I. C. R.R. n.t.p. [Washington, Mar. 5, 1856]. O. pp. 7.
This and the two next following in vol. "Illinois Central. Pamphlets. 1."

—— — Message of the president of the United States, relative to the transmission of the mail and munitions of war over the I. C. R.R. n.t.p. [Washington, Mar. 10, 1856.] O. pp. 17.

—— — Report [of] the Committee on post office and post roads, concerning the transmission of the mail and property of the United States over the I. C. R.R. in the State of Illinois. n.t.p. [Washington, May 6, 1856.] O. pp. 4.

Indiana and Illinois Central. The first mortgage seven per cent. sinking fund gold bonds as an investment on eighty-five miles of completed road; Walker, Andrews & Co., New York. N. Y., 1873. O. pp. 7.

—— Organization; with the report of the engineer, A. B. Condit. Indianapolis, 1853. O. pp. 13.

—— A statement respecting the I. & I. C. ry. building an east and west air line; showing the basis and security of its first mortgage 7 per cent. sinking fund gold bonds. N. Y., 1872. O. pp. (4) + 7-80. 1 *fold. map.*

Indiana Central. 3rd, 6th annual report of the president and directors to the stockholders. N. Y., Indianapolis, 1855-58. 2 vols. O.

Indianapolis and Bellefontaine. An act to incorporate I. & B. R.R.; and the by-laws, organization, officers, &c., of said incorporate company. Muncie, 1848. O. pp. 28.

—— Communication of the president, and report of the engineer, Dec. 4, 1849. Indianapolis, 1849. O. pp. 34.

—— Exhibit of the affairs of the I. & B. R.R. n.t.p. [N. Y., Mar. 6th, 1850.] O. pp. 21. 1 *fold. map.*

Indianapolis and Cincinnati. Report for 1859. Cincinnati, 1860. O.

Indianapolis, Cincinnati and Lafayette.

Equipment bond. n.p., n.d. [22nd July, 1873.] O. pp. 19.

Jeffersonville, Madison and Indianapolis. 1st annual report, exhibiting the business of the Jeffersonville railroad for 1865 and the first four months of 1866, and the business of the consolidated company from May 1st to Dec. 31st, 1866. Louisville, Ky., 1867. O.

Kansas City, Clinton and Springfield. 1st annual report, for 1887. Boston, 1888. O.

Kansas City, Fort Scott and Gulf. [1st,] 3rd annual report. Dec. 31, 1879, 1881. Boston, 1880–82. 2 vols. O.

Kansas City, Fort Scott and Memphis. 4th, 5th annual report for the year ending June 30, 1891, 1892. Boston, [1891–92.] 2 vols. O.

—— Among the Ozarks: the land of "big red apples." 9th ed. Kansas City, 1894. O. pp. 53. 23 *cts.*

—— [Time table and guide.] Fall, 1894. St. Louis, 1894. folder. nar. O.

Kansas City, Memphis and Birmingham. 1st annual report, for the year ending June 30, 1890. Boston, 1890. O.

Kansas Pacific. 2nd, 4th, 8th annual report of the Board of directors to the stockholders, for 1868, '70, '74. N. Y., St. Louis, 1869–75. 3 vols O.

—— Hand book for the K. P. ry. containing a description of the country, cities, towns, &c., lying along the line of the road and its branches. St. Louis, Mo., 1870. D. pp. (26.) 1 *fold. map.*
"Extracted from Tracy's Guide to the great West."

—— Die heutige Lage der Kansas-Pacific-Eisenbahn-Gesellschaft; Bericht des am 23 Dezember 1873 von den Bondsbesitzern erwählten Komitee's. Frankfurt a. M., 1874. O. pp. 29.
This and next following in vol. "Kansas Pacific. Pamphlets. 1."

—— Kansas Pacific railway gold loan: $6,500,000 first mortgage seven per cent. gold bonds, thirty years to run; a railroad and land-grant sinking fund bond, registered or coupon. n. p., [1869?] O. pp. 48.

Kentucky and Great Eastern. An exhibit; its route, resources, cost of construction, and operation. Cincinnati, 1871. O. pp. (2) + 5–20. 1 *fold. map.*

Kentucky Central. 10th, 11th annual report for 1884, 1885. [N. Y., 1885–86.] 2 vols. F., folded to nar. O.

Keokuk and Des Moines. 1st annual report of the Board of directors to the stockholders, for the year ending March 31, 1875. N. Y., 1875. O.

Keokuk and Kansas City. History, charter and statistics, May 1, 1873. St. Louis, 1873. O. pp. 30. 1 *fold. map.*

Knox and Lincoln. Charter and by-laws. Rockland, 1868. O. pp. 36.

Lackawanna and Bloomsburg. Report of the directors to the stockholders, Feb., 1855, Dec., 1859. N. Y., Philadelphia, 1855–60. 2 vols. O.

La Crosse and Milwaukee. 5th annual report of the directors to the stockholders, Jan., 1857. Milwaukee, 1857. O.

—— 3rd annual report of the receiver, to the bondholders and other creditors, of the operations of the road, for 1862. Milwaukee, 1863. O.

—— Agreement of creditors, for purchasing the road and organizing the Milwaukee and St. Paul railway; New York, Oct. 3, 1861. N. Y., 1861. O. pp. 12.
Cover title.

—— Circular to the stockholders, together with the act of Congress, and of the legislature of Wisconsin, granting land to said company, and papers relating to said rail road. N. Y., 1856. O. pp. 32. 1 *fold. map.*

—— Exhibit, March, 1856. N. Y., 1856. O. pp. 24.

—— Modified trust deed reducing land grant mortgage and bonds to $4,000,000, dated Jan. 28, 1858. Albany, 1858. O. pp. (2) + 5–14.

Lafayette and Indianapolis. Report of the directors to the stockholders, for 1851. Lafayette, 1852. O.

Lake Erie and Louisville. 1st annual report of the president and directors, for 1872. Cleveland, 1873. O.

Lake Erie and Pacific. Report of chief engineer and general superintendent, presenting characteristics of location and construction, with statistics and estimate of probable revenue, together with form of bond and mortgage. N. Y., 1863. O. pp. 52. 1 *fold. map.*

Lake Shore and Michigan Southern. 1st–23rd annual report of the president and directors to the stockholders, for 1870–1892. Cleveland, 1871–93. 23 vols. bd. in 5. O. and sq. Q.

—— America's best railway: summer excursions, 1894: the Lake Shore route to the mountains, lakes and seashore. n.p., n.d. nar. O. pp. 48.
Cover title.

—— Lake Chautauqua: reached by America's best railway. n.p., n.d. D. pp. 36. 32 *cts.*
Cover title.

—— Summer homes on the line of the L. S. and M. S. ry. Chicago, 1893. O. pp. 56. 30 *cts.*

—— When? How? Why? ["The Lake Shore route." The double-track railway to the World's Fair.] n.p., n.d. sq. Q. pp. (4). folded to nar. O.

—— Leland, C. P. History of the Lake Shore & Michigan Southern railway. N. Y., 1887. O. pp. (26). 2 *cts.*
Extracted from *Journal of the Association of Engineering Societies*, vol. 6, Sept. 1887. pp. 340-355.

—— Seven short chapters on Lake Shore; [and Appendix.] n.p., 1880. O. pp, 12; and sq. S. pp. 8.

Lawrenceburgh and Upper Mississippi—Indiana—*General Assembly.* The acts incorporating the L. & U. M. R.R. Indianapolis, 1852. O. pp. 19.

Lehigh Valley. 27th, 28th, 31st, 32nd annual report of the Board of directors to the stockholders, Jan., 1882, '83, '86, '87. Philadelphia, 1882-87. 4 vols. O.

Lewiston Falls and Rumford Falls. Report of a survey and estimate for a rail road from Lewiston Falls to Rumford Falls, Maine; by W. H. Noble. Portland, 1849. O. pp. 12.

Lexington and Danville. 3rd, 4th annual report of the president and directors to the stockholders, May, 1854, '55. Lexington, 1854-55. 2 vols. O.

Ligett's Gap. Report on the surveys, estimates and revenues of the L. G. R.R., connecting the Lackawanna coal basin with the New York and Erie railroad at Great Bend; to the president and directors, by W. H. Morell. Ithaca, N. Y., 1849. O. pp. 48. 1 *fold. map.*

Little Miami. 1st-9th annual report of the directors, for 1843-1851. Cincinnati, 1849-51. 9 vols. in 4. O.
For 1843-48 issued in 1 vol.

—— Charter, by-laws, adopted Jan., 1867; contract of union with the Columbus and Xenia railroad. Cincinnati, 1867. O. pp. 30.
Cover title.

—— Explanatory letter to the stockholders. Cincinnati, 1854. O. pp. 16.

—— *and* **Columbus and Xenia.** 1st, 4th, 6th, 11th joint annual report of the directors to the stockholders, for 1856, '59, '61, '66; being the 14th, 17th, 19th, 24th of the L. M. R.R. and the 7th, 10th, 12th, 17th of the C. & X. R.R. Columbus, 1857-67. 4 vols. O.

Logansport and Northern Indiana. Report of the president and directors to the stockholders, New York, Nov. 26, 1856. N. Y., 1856. O.

—— Report of the chief engineer, exhibiting the character and prospects of the road and also statement of the secretary, showing the condition; presented to the Board of directors, Logansport, May 1, 1854, 1855. N. Y., 1854-55. 2 vols. O.

Long Island. Report of the Board of directors to the stockholders, Jan. 1, 1845. Brooklyn, 1845. O.

—— Report of special committee; with opinions of counsel. N. Y., 1855. O. pp. 24.

—— Reports of the engineers upon the practicability; with the correspondence between the commissioners of that company and the president of the New-York, Providence & Boston rail-road; to which is added the act of incorporation. N. Y., [1834?] D. pp. 24.

Louisa. Charter, and the several other acts of the [Va.] General Assembly relating to the same; also, form of a power of attorney to vote at a meeting of the stockholders. Richmond, 1849. O. pp. 49.

—— Report of Moncure Robinson, upon the surveys for the L. R.R. Richmond, 1836. O. pp. 30.

Louisiana Western. Annual report for 1885, 1886. [N. Y., 1886-87.] 2 vols. F., folded to nar. O.

Louisville and Cincinnati Branch. Report of surveys and estimates. Louisville, Ky., 1866. O. pp. 52. 1 *fold. map*, 1 *fold. table.*

Louisville and Nashville. Annual report of the president and directors, ending 30th June, 1862, '63, '64, '67, '69-72, '74, '76. Louisville, Ky., 1862-76. 10 vols. O.

Louisville, Cincinnati and Charleston. 4th annual report of the president and directors to the stockholders, Sept., 1840. Charleston, [reprinted,] 1851. O.

Louisville, Cincinnati and Lexington. 1st annual report; being the 19th annual report of the Louisville & Frankfort, and Lexington & Frankfort railroad companies, for the year ending June 30, 1867. Louisville, Ky., 1867. O.

Lynchburg and Tennessee. 1st annual report of the president to the stockholders, Nov. 27, 1848. Richmond, 1848. O.

McGregor Western. [Prospectus, articles of incorporation, etc.] N. Y., 1864. O. pp. 31.

Madison and Indianapolis. 7th annual report of the president to the directors and the stockholders, Jan. 1850. N. Y., 1850. O.

—— Railroad map of the State of Indiana, with a statement of the condition of the roads now in process of construction; published by the M. & I. R.R., for the stockholders. March, 1850. N. Y., 1850. O. pp. 8. 1 *fold. map.* Size, 52 x 41 cm.
"Railroad map of Indiana, by Col. T. A. Morris"; "The roads now in process of construction in Indiana," by John Brough.

Maine Central. 21st, 27th annual report of the directors to the stockholders, for the year ending Sept. 30, 1882, 1888. Portland, Me., 1882-88. 2 vols. O.

—— Charter and by-laws of the M. C. R.R.,

organized Oct. 28th, 1862. Bangor, 1863. O. pp. 33.

Manchester. [Report on the preliminary examination and survey; by Benjamin Wright.] n.t.p. [N. Y., May 16, 1834.] O. pp. 8.

—— CONNECTICUT—*General Assembly.* [Resolution incorporating the M. R. R.] n.t.p. [1833?] O. pp. 8.

Marietta and Cincinnati. 1st, 2nd annual report. Chillicothe, Cincinnati, 1851–52. 2 vols. O.

—— 4th, 8th annual report of the M. & C. R.R., as reorganized. Dec. 31, 1864, 1868. Cincinnati, 1865–69. 2 vols. O.

—— Semi-annual report of the M. & C. R.R., as reorganized. 1st Jan., 1864. N.Y., 1864. O.

—— Special report of the M. & C. R.R., as reorganized. 1st Feb., 1863. Cincinnati, 1863. O. pp. (2) + 5–16.

Marietta, Hillsborough and Cincinnati. Correspondence between a committee of the citizens of Cincinnati, and the president, [on condition and progress of the railroad.] March 3, 1856. Cincinnati, 1856. O. pp. 8.
Cover title.

Massachusetts Central. A brief statement of its present condition and future prospects. Sept. 3, 1879. Boston, [1879.] O. pp. 15. 1 *fold. map.*

Memphis and Charleston. 9th, 10th annual report of the Board of directors to the stockholders. July 1, 1859, '60. Memphis, 1859–60. 2 vols. O.

—— 30th annual report, for the year ending June 30, 1884. n.p., n.d. O.

Michigan Central. Report of the directors to the stockholders, June, 1853–Dec., 1894. Boston, Detroit, 1853–95. 29 vols. O.
Lacking 1854-56; 1860-62; 1864; 1866-71.

—— A modern pilgrimage; to Niagara Falls, Thousand Islands, [&c.] via the M. C. R.R. n.p., n.d. D. pp. 80. 52 *cts.*, 1 *map.*

—— Comfort in travel. Chicago, 1894. nar. S. pp. (44.) 32 *cts.*

—— The Falls of Niagara; depicted by pen and camera. Chicago, 1892. obl. T. pp. 44. 23 *cts.*, 1 *fold. map.*

—— *Same.* Chicago, 1893. obl. T. pp. 44. 23 *colored cts.*, 1 *fold map.*

—— From city to surf. Chicago, 1888. Q. pp. 104. 100 *cts.*, 1 *map.*

—— [Guide:] To the World's Columbian exposition at Chicago; from New York, Boston and the East, via Michigan Central. n.p., n.d. folder. nar. O.

—— *Same, French.* n.p., n.d. folder. nar. O.

—— [Guide:] To the World's Fair city of Chicago. n.p., n.d. folder. nar. O.

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—— The new Don Quixote; a continuation of Cervantes' faithful relation; by H. B. Smith. Buffalo, N. Y., [1892.] sq. O. pp. 67. 20 *cts.*

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—— A summer note book. n.p., n.d. O. pp. 74. 29 *cts.*

—— *Same.* [Another ed.] n.p., n.d. O. pp. 74. 26 *cts.*, 1 *fold. map.*

—— Summer tourist rates and routes via the M. C. R.R., season of 1894. Chicago, 1894. S. pp. 55.

—— Two great limited trains, the North Shore limited and the New York and Chicago limited. n.p., n.d. sq. S. pp. (36). 33 *cts.*

—— MICHIGAN—*Legislature.* Charter of the M. C. R.R., approved March 28, 1846; with amendments. Boston, 1857. O. pp. 38.

Michigan Southern. Circular statement of the condition and prospects, 1849. N.Y., 1849. O. pp. 19.

—— MICHIGAN—*Legislature.* Acts of incorporation of the M. S. R.R. and of the Erie & Kalamazoo R.R., and acts relating thereto. Springfield, 1849. O. pp. 33.

Michigan Southern and Northern Indiana. Report of the directors, 1853, '55, '57, '59. N. Y., 1853-59. 4 vols. O.

—— Annual report of the president and directors to the stockholders, Mar. 1, 1860, '63, '66, '68, '69. N. Y.; Toledo; Chicago, 1860–69. 5 vols. O.

—— The charter and laws of the States of Ohio, Indiana, Michigan and Illinois relative to the M. S. & N. I. R.R. N. Y., 1855. O. pp. vi + 218.

—— Letter to the stockholders, by George Bliss, president of the company, March 24, 1860. N. Y., 1860. O. pp. 13.

—— Report; by John B. Jervis, chief engineer. N. Y., 1850. O. pp. 20. 2 *fold. maps.*

Milwaukee and Beloit. 1st annual report of the directors, with the report of the secretary

and chief engineer, presented March 4, 1857. Milwaukee, 1857. O.

—— Statement of the president, in relation to the affairs of the company; also a list of officers, and directors; the charter, and amendatory acts thereto. Milwaukee, 1857. O. pp. (2) + 7–65. 1 *fold. map.*

Milwaukee and Horicon. 3rd annual report of the directors to the stockholders, April 1, 1857. Milwaukee, 1857. O.

Milwaukee and Mississippi. 8th–11th annual report of the directors to the stockholders; together with the reports of the treasurer, secretary and superintendent. 1856–1859. Milwaukee, 1857–60. 4 vols. O.

—— Engineer's report, for 1850. n.p. [1851.] O. pp. 15. 1 *fold. map.*

—— Exhibit of the present condition; together with an examination of the resources of the country. Milwaukee, 1851. O. pp. 16.

—— Plan for re-organization. n.t.p. [N.Y., 25th April, 1860.] O. pp. 13.

—— To the creditors of the late M. & M. R.R., parties to an agreement dated July 30, 1860, modified Oct. 10, 1860. n.t.p. [1861?] O. pp. 2.

—— Wisconsin — *Legislature.* Acts incorporating the M. & M. R.R. Milwaukee, 1850. O. pp. 18.

Milwaukee and Northern. Eight per cent. first mortgage coupon or registered bonds, for sale at 90 and accrued interest; A. S. Apgar, New York. n.p., n.d. broadside. O.

Milwaukee and Prairie du Chien. 1st–6th annual report to the stockholders, for 1861–66. Milwaukee, 1862–67. 6 vols. O.

Reports 5 and 6 contain the 1st and 2d report of the **McGregor Western.**

—— By-laws; adopted June 10, 1863. Milwaukee, 1863. S. pp. 9.

—— [Circular; announcing organization.] n.t.p. [1861?] sq. O. pp. (2).

—— [Circular; to the stockholders; L. H. Meyer, president.] n.t.p. [N. Y., 16th Feb., 1864.] O. pp. (2).

—— [*Same.*] n.t.p. [N. Y., 26th Feb., 1865.] O. pp. 3.

—— [Circular letter: to the stockholders; L. H. Meyer, president.] n.t.p. [N. Y., 21st April, 1864.] O. pp. 2.

—— [*Same.*] n.t.p. [N. Y., 24th April, 1864.] O. pp. 3.

—— [Circular letter: to the holders of all classes of stocks of the M. & P. du C. ry.; L. H. Meyer, president.] n.t.p. [N. Y., 31st Jan., 1865.] O. pp. 4.

—— Documents relating to the organization. N. Y., 1861. O. pp. (2) + 5–75.

—— Letter from the "Farmer's general home league," Janesville, Wisconsin, and the answers of the M. & P. du C. ry. co., and of the trustees of the creditors of the Milwaukee & Mississippi. n.p., n.d. [Oct. 3rd, 1861.] O. pp. 10.

Cover title.

—— Mortgage or deed of trust, from the M. & P. du C. ry., to W. Schall and N. A. Cowdrey, to secure the payment of $2,556,000. N. Y., 1861. O. pp. 14.

—— Report of the committee of stockholders, made June, 1863, relative to the management, expenditures, and policy of said company. Milwaukee, 1863. O. pp. 8.

—— Wisconsin — *Legislature.* An act to authorize the M. & P. du C. ry. to issue stock to aid in adjusting and settling up outstanding farm mortgages, judgments, floating debts, income bonds and stock of the late Milwaukee and Mississippi R.R. Approved, March 31st, 1864. n.t.p. O. pp. 3.

—— — An act to amend the articles of association of the M. & P. du C. ry. Approved, March 26th, 1864. n.t.p. O. pp. 4.

Milwaukee and St. Paul. 5th–7th annual report, 1868–1870. Milwaukee, 1869–71. 3 vols. O.

—— Documents relating to organization. N. Y., 1863. O. pp. 47. 1 *fold. map.*

—— $300,000 railroad income bonds, for sale by the M. and St. P. ry. N. Y., 1864. O. pp. 8.

Mine Hill and Schuylkill Haven. Report of the Board of managers to the stockholders at their annual meeting, Jan. 1840, '42, '60, '64. Philadelphia, 1840–64. 4 vols. O.

Minnesota Valley. Grants of land, charter and laws upon which the organization is based. St. Paul, 1866. O. pp. (2) + 5–46.

Mississippi and Atlantic. Exhibit; March, 1854. N. Y., 1854. O. pp. 14. 2 *fold. maps.*

—— To the stockholders of the M. & A. R.R. from Terre Haute to St. Louis, April 20, 1854. St. Louis, 1854. O. pp. 16.

—— [*Same.*] n.t.p. [New York, March 6, 1855.] O. pp. 10.

Mississippi and Missouri. Circular statement, embracing the report of Henry Farnam, chief engineer, June, 1851. N. Y., 1854. O. pp. 16.

—— Speech of Gen. John A. Dix, president, at the celebration at Iowa City, on the completion of the road to the latter point, Jan. 3, 1856. N. Y., 1856. O. pp. 19.

Mississippi and Pacific. 1st annual report

of the president of the Louisiana Central Stem of the M. and P. R.R., June, 1858. N. Y., 1858. O.

Mississippi Valley. Address of the railroad convention, which assembled at Hannibal, on the 13th June, 1855. St. Louis, 1855. O. pp. 26.

Missouri, Kansas and Texas. 1st annual report of the Board of directors to the stockholders, May 15th, 1872. N. Y., 1872. O.

—— Reports and statements, for 1877. N.Y., 1878. O.

—— Report of receivers, for 1890. N. Y,. 1891. O.

—— Report to the stockholders, for the year ending June 30th, 1892-94. N. Y., 1892-94. 3 vols. Q.

Missouri Pacific. Report of the stockholders of the M. P. ry. leased and operated lines, and the Texas and Pacific ry., for 1884. N.Y., 1885. O.

—— 6th-8th annual report to the stockholders, for 1886-1888. St. Louis, 1887-89. 3 vols. O.

Missouri River, Fort Scott and Gulf. Report to the bondholders and stockholders, Dec. 31, 1874, 1877. Boston, 1875-78. 2 vols. O.

Mobile and Alabama Grand Trunk. Proceedings of the first annual meeting of the stockholders, held in Mobile, July 1, 1871. Mobile, 1871. O.

—— By-laws, adopted by the Board of directors, March 16, 1870. Mobile, 1870. O. pp. 8.
Cover title.

Mobile and Ohio. 5th, 33rd-41st annual report; May 9, 1853, '80/81-'88/89. Mobile; N. Y., 1853-89. 10 vols. O.

—— Agreement for the readjustment, &c., of the securities of the M. & O. R.R., dated Oct. 1, 1876. n.t.p. [N. Y., 1876.] O. pp. 27.

—— [Agreement, made 1st March, 1888, between the M. & O. R.R., the Farmers' loan and trust co., and the holders of the first, second, third, and fourth preferred income and sinking fund debentures of the M. & O. R.R.] n.t.p. O. pp. 15.

—— Assignment of securities by the committee of reorganization to the Farmers' loan and trust co., trustees, dated March 1, 1879. n.t.p. O. pp. 22.

—— By-laws and system of organization, and rules and regulations for the government of officers and employees and for running of trains; revised and adopted by the Board of directors, Dec. 13, 1871. Mobile, 1871. S. pp. 26.

—— By-laws, adopted by the Board of directors, April 3d, 1889. Mobile, 1889. O. pp. 17.

—— A compendium of the several deeds of mortgage and trust, made by said company to secure payment of its bonds; also of the laws of the several states through which its road passes, and of the acts of Congress making a grant of land in aid of the construction of said road. Mobile, 1876. O. pp. 74 + (4).

—— [Deed of trust: M. & O. R.R. to W. B. Duncan and C. E. Tracy, trustees. Cairo extension. Mortgage; issue $600,000; due July 1, 1892. Dated, 15th March, 1880.] n.t.p. O. pp. 35.

—— [Deed of trust: M. & O. R.R. to the Farmers' loan and trust co., trustee, first mortgage extension bond; issue, $1,000,000. Dated, July 1, 1883; due July 1, 1927.] n.t.p. O. pp. 19.

—— General mortgage, $10,500,000, dated, May 15, 1888, due Sept. 1, 1938; interest 4 per cent. per annum, payable March and September. n.t.p. O. pp. 31.

—— New issues under the agreement for the readjustment of the securities of the M. & O. R.R., dated Oct. 1st, 1876. n.p., n.d. O. pp. 24.

—— Preferred income and sinking fund debenture trust deed, dated May 1, 1879. n.t.p. O. pp. 23.

Mobile and Pascagoula. Report on the survey of a rail road from Mobile to Pascagoula; by Lewis Troost. Mobile, 1841. D. pp. 31.

Mohawk and Hudson. MUNSELL, J. Origin and progress of the M. and H. R.R.; first operated July, 1831; read before the Albany Institute, April 20, 1875. n.p., n.d. O. pp. 18. 1 *plate.*

Mohawk and St. Lawrence. Papers and documents relative to the M. and St. L. R.R. & Navigation co. Albany, 1838. O. pp. 33. 1 *fold. map.*

Morgan's Louisiana and Texas. Annual report for 1879-82, '85. New Orleans, 1879-85. 5 vols. O.

—— Annual report for the year ending Dec. 31, 1885. n.p., n.d. F., folded to nar. O.

Morris and Essex. Report of the Board of directors, for 1863; with the proceedings of the annual meeting at Newark, N. J., June 15, 1864. Newark, 1864. O.

Napa Valley. [Circular letter to the Board of directors, giving original subscription list to stock; signed, in autograph, A. Y. Easterby, president, Alex. Badlam, secretary.] n. t. p. [Napa, Cal., Sept. 1865.] F. pp. (1).

—— [San Francisco and Napa City: MS. copy of the notice of opening. Napa, Cal., April 2, 1866.] F. pp. (1).

—— E[ASTERBY], A. Y. A short history of the Napa Valley R.R. Napa, 1892. 5 columns. Q.
Extracted from the *Echo*, vol. 1, no. 6. Dec. 24, 1892.

Nashua and Rochester. Six per cent. first mortgage bonds, guaranteed by the W. and N. R.R., in denominations of $500, $1000 and $5000. Worcester, 1874. O. pp. 16.

Nashville and Decatur. Organization, charter, and by-laws, Jan., 1867. Nashville, 1867. O. pp. 32.

Nashville, Chattanooga and St. Louis. Annual report of the president and directors to the stockholders, July 1st, 1881. Nashville, 1881. O.

Naugatuck. 2nd annual report of the Board of directors to the stockholders, Feb. 18, 1850. New Haven, 1850. O.

Newark, Somerset and Straitsville. Report of the special committee of the Board of directors and chief engineer, showing the present condition of the enterprise. Newark, O., 1870. O. pp. 25. 1 *fold. map.*
Cover title.

Newcastle and Danville. Exhibit; Dec., 1854. Cincinnati, [1854?] O. pp. 15.

New Haven and Northampton. 14th annual report (4th under the railroad charter). June 4, 1850. New Haven, 1850. O.

—— [Corrected copy of lease of the N. H. & N. R.R., for ninety-nine years, to the New York, New Haven and Hartford.] n.t.p. [N.Y., 14th May, 1887.] Q. pp. 10.

—— WESTFIELD (*Conn.*) — *Town Meeting.* Reasons why the N. H. & N. R.R. should terminate at Westfield. n.t.p. [Westfield, April 9, 1849.] O. pp. 8.

New Haven, Middletown and Willimantic — CONNECTICUT — *General Assembly.* Charter, and all amendments and acts of the Connecticut legislature concerning the same. Boston, 1869. O. pp. (2) + 5–20.

New Haven, New London and Stonington —CONNECTICUT—*General Assembly.* Report of the joint standing committee on railroads, on the petition for an alteration of the charter of the N. H. N. L. & S. R.R. Hartford, 1857. O. pp. 8.

New Jersey Railroad and Transportation Company. Annual report to the legislature of New Jersey, for 1852. Trenton, 1853. O.

—— Report of the directors to the stockholders, with the proceedings of the annual meeting, June, 1853–1867. Newark, 1853–67. 15 vols. O.

—— By-laws, approved Dec. 5, 1863. N.Y., 1863. O. pp. 15.

New Jersey Midland. $3,000,000 first mortgage bonds; interest and principal payable twenty-five years from August 1st, 1870. N.Y., n.d. O. pp. (2) + 5–30.

New London, Willimantic and Springfield. Engineer's report, and charter. New London, 1847. O. pp. 48. 2 *fold. maps.*

New Orleans, Baton Rouge and Vicksburg—UNITED STATES—*Congress.* An act to declare a forfeiture of lands granted to the N. O. B. R. and V. R.R.; to confirm title to certain lands; and for other purposes. Approved, Feb. 8, 1887. n.t.p. [Washington, 1887.] O. pp. 2.

Newport News and Mississippi Valley Company. 1st annual report, for 1886. n.p., n.d. F., folded to nar. O.

New York and Albany. Facts and suggestions relating to the N. Y. and A., with the acts of incorporation. N. Y., 1832. O. pp. 32.

—— Memorial to the legislature, March 6th, 1841. N. Y., 1841. O. pp. 12. 1 *fold. map.*

—— Report of E. F. Johnson, chief engineer, Jan., 1839. N. Y., 1839. O. pp. 24. 1 *fold. map.*

—— Sketch of the remarks made by the president, at a meeting of citizens held Nov. 10, 1840; with a copy of the resolutions passed at that meeting, and other information of interest on the subject of rail roads generally. N. Y., [1840]. O. pp. 20. 2 *fold. maps.*

New York and Boston. [Memorial of the central committee appointed at a general convention of delegates assembled at Middletown, 13th Jan., 1847, to promote the interests of the N. Y. and B. R.R.] n.t.p. [Middletown, 1847.] O. pp. 6.

—— A reply to the statement of the citizens of Hartford to the people of Connecticut, issued in April, 1848, on the subject of the N. Y. and B. R.R. Middletown, 1848. O. pp. 28.

—— Report of Edwin F. Johnson, to the central committee. August, 1847. Middletown, 1847. O. pp. (4) + 7–64.

—— Statement of the N. Y. and B. R.R. in reply to the report of the general railroad commissioners of Connecticut; for the use of the legislature and citizens of Connecticut. Portland, Me., 1857. O. pp. 27.

New York and Boston Rapid Transit Co. Prospectus for a direct railway line between New York and Boston. Boston, 1886. O. pp. 24.

New York and Erie Railroad. 1st annual report of the directors, made to the stockholders, Sept. 29, 1835. N. Y., 1835. O.

—— Copy of the report of the directors, filed in the office of the Secretary of State, on 12th Jan., 1836. n.p., n.d. O.

—— 2nd report of the directors to the stockholders, Feb. 3, 1841. N. Y., 1841. O.

—— [Outline of contents of 2nd annual

report, made to the stockholders, 29th Sept.; distributed Oct. 4, 1836.] N. Y., 1836. sq. Q. pp. (3).
"From the *New York American*, Oct. 4, 1836."

—— Report of the Board of directors [to the stockholders], Feb. 8, 1844; March, 1849; Feb. 15, 1851; Dec. 24, 1851; Nov., 1853. N. Y., 1844–53. 5 vols. O.
Also 2nd ed. of Report for 1853.

—— Reports of the president to the stockholders, for the year ending Sept. 30, 1855, 1857, 1858. N. Y., 1856–58. 3 vols. O.

—— [Address of the Board of directors to the stockholders.] n.t.p. [N.Y., 20th April, 1842.] O. pp. 8.

—— [*Same.*] n.t.p. [N.Y., 31st Oct., 1844.] O. pp. 16.

—— Address of the directors to the stockholders, May 19, 1848. n.p., n.d. [N.Y., 1849.] O. pp. (1) + 10.

—— Address of the directors to the stockholders, Feb. 1, 1850. N. Y., 1850. O. pp. 13.

—— Address of the N. Y. & E. R.R. convention [at Elmira, Oct. 17, 1837,] to the people of of the State of New York. Auburn, 1837. O. pp. 30.

—— Address to the people of the State of New York by the N. Y. & E. R.R. convention, held at Owego, July, 1835. N. Y., 1835. O. pp. 18.

—— An address to the stockholders and creditors, [by George Bruce]. n.t.p. [N. Y., May 9, 1859.] O. pp. 16.

—— [*Same.*] No. 2; by George Bruce. n.p. [Oct. 8, 1859.] O. pp. 8.

—— Address to the stockholders and the public, in relation to the report of the commissioners appointed by the legislature of the State of New York, to locate certain portions of the N. Y. & E. R.R. N. Y., 1847. O. pp. 20.

—— By-laws and regulations of the N. Y. & E. R.R., adopted by its Board of directors on the 10th Sept., 1841. N. Y., 1841. O. pp. 23.

—— Considerations on the subject of the N. Y. & E. R.R. n.t.p. [N. Y.? 1833?] O. pp. 14.
With a letter from Benjamin Wright to E. Lord, chairman of committee of N. Y. & E. R.R.

—— *Same.* [Another ed.] n.t.p. [N. Y.? 1833?] O. pp. 16.

—— The decision of the Lieutenant-governor [Dickinson], together with the opinion of W. H. Seward, on the question whether the bill in relation to the N. Y. & E. R.R. is a majority bill. Albany, 1843. O. pp. 27.

—— Estimated income of the N. Y. & E. R.R. n.t.p. [183–.] O. pp.6.

—— Facts and considerations relating to the N. Y. & E. R.R. n.t.p. [N. Y., May 25, 1840.] O. pp. 16.

—— Historical notices respecting the origin and proceedings. n.p., n.d. [N. Y., May, 1845.] O. pp. 25.

—— Letter from James Seymour, division engineer of the N. Y. & E. R.R., in respect to the curvature and graduation on that and sundry other roads. n.t.p. [N. Y., Jan. 11, 1836.] O. pp. 8.

—— Memorial to the legislature of the State of New York. N. Y., 1837. O. pp. 20.

—— New York and Erie rail road. Mr. Faulkner's bill: truths which every citizen of New York ought to read, 1842. N. Y., 1842. D. pp. 24.

—— Opinions and decisions on the question whether the bill for conditionally releasing the N. Y. & E. R.R. from the state loan is a majority bill. Albany, 1845. O. pp. (2) + 5–19.

—— Petition of the N. Y. & E. R.R. for the consent of the legislature to the end that they may connect their road with a continuation of the line thereof into Pennsylvania, in the counties of Susquehanna and Pike. n. t. p. N. Y.? 184–?] O. pp. 12. 2 *fold. maps.*

—— [Petition to the legislature of the State of New York.] n.t.p. [Jan. 24, 1840.] F. pp. 3.

—— [Proposed conditions of the first subscription to the stock of the N. Y. & E. R.R.] [N. Y., May 28, 1833.] O. pp. 2.

—— Report of H. C. Seymour, superintendent of the eastern division of the N. Y. & E. R.R., to the assignees of the company. N. Y., 1842. D. pp. 10. 4 *fold. tables.*

—— Report of the directors to the stockholders, March 1849. N. Y., 1849. O. pp. 40.

—— Report [to the president and directors.] of Moncure Robinson, Jonathan Knight, and Benjamin Wright, civil engineers, upon the plan of the N. Y. & E. R.R. N. Y., 1835. O. pp. 11.

—— Sale of bonds of the N. Y. & E. R.R. n.t.p. [N. Y., Sept. 14, 1847.] O. pp. (4).

—— Speech of Samuel P. Lyman, of Utica, at the convention of delegates, held at Ithaca, July 11th, 1839, on the subject of the N. Y. & E. R.R. N. Y., 1839. O. pp. iv + 5–38.

—— [Statement of the affairs of the company, by the directors to the stockholders. New York, April 20, 1842.] [N. Y., 1842.] O. pp. 8. 1 *fold. table.*

—— A statement of the operations under the receivership, from Aug. 16, 1859, to Dec. 31, 1861. N. Y., 1862. O. pp. 35.

—— Summary statement of the situation and prospects of the N. Y. & E. R.R. N. Y., 1835. O. pp. 14.

—— Termination at Piermont. n.t.p. [183-?] O. pp. 7.

—— [Taxable property of the N. Y. & E. R.R., real and personal, according to the assessment of 1834; per the comptroller's report.] n.t.p. O. pp. (1).

—— *and others.* Copy of mortgage to J. J. Palmer, J. Walker and N. J. Smith, trustees, to secure the payment of the bonds of the N. Y. & E. R.R., for four millions of dollars. Executed March 1, 1849. n.t.p. O. pp. 4.

—— [ARTICLE on the N. Y. and E. R.R.; by a taxpayer.] n.t.p. [1839?] O. pp. 10.

—— COMPARISON (A) showing the advantages of railroads vs. canals & rivers, for the transportation of freight and passengers; addressed to the people of the "southern tier of counties," State of New York. [Owego,] 1841. O. pp. 24.
Signed "C," "*Owego advertiser*—extra."

—— INQUIRY (An) into the causes which have affected the prospects and condition of the N. Y. & E. R.R.; by a calm observer. N. Y., 1843. O. pp. 27.

—— LETTER (A) to the public in relation to the N. Y. & E. R.R. [N. Y., 184-?] O. pp. 8.

—— LORD, E. A historical review of the New York and Erie railroad. N.Y., 1855. O. pp. 223.

—— NEW YORK (*City*) — *Common Council.* Proceedings in respect to the N. Y. & E. R.R. n.t.p. [N. Y., Feb. 4, 1835.] O. pp. (7).

—— NEW YORK (*State*)—*Assembly.* Abstract of the report of the select committee appointed by the democratic members of the New York Assembly of 1840, '41, to investigate the affairs of the N. Y. & E. R.R. Presented in the Assembly of 1841, '42. [Albany, Dec. 31, 1841.] O. pp. 16.

—— An act to provide for the construction of a rail-road from Lake Erie to the Hudson river; brought in by Mr. Scoles. n.t.p. [Feb. 21, 1839.] F. pp. 5.

—— Annual report of the Railroad commissioner, appointed under the act of 18th April, 1843, entitled "An act in relation to the construction of the N. Y. & E. R.R.," presented to the Canal board, Jan. 2, 1844. [Albany, Jan. 8th, 1844.] O. pp. 9 + 19-23 + 33-58. 2 *fold. tables.*

—— Annual report of William Baker, Railroad commissioner, to the Canal board, in relation to the N. Y. & E. R.R. Albany, Feb. 8th, 1845. O. pp. 7.

—— Communication from the Secretary of state, transmitting the annual report of the N. Y. & E. R.R. for 1837, 1839, 1840. [Albany,] 1838-41. 3 vols. O.

—— Communication from the Secretary of state, transmitting the report of a survey of a route for a railroad from the city of New York to Lake Erie. n.t.p. [Albany, 29 Jan., 1835.] O. pp. 99.

—— Joint resolution authorizing the N. Y. & E. R.R. to change their route. n. t. p. [Albany,] Feb. 24th, 1845. O. pp. 2.

—— Joint resolution [as altered] authorizing the N. Y. & E. R.R. to change their route. n.t.p. [Albany], March 1, 1845. O. pp. 2.

—— Memorial remonstrating against altering the charter of the N. Y. & E. R.R., so as to allow them to run their road into Pennsylvania. n.t.p. [Albany], March 19, 1845. O. pp. 3.

—— Petition of the directors, praying for aid from the State in the construction of said road. n.t.p. [Albany], Jan. 12, 1843. O. pp. 6.

—— Remarks of Mr. Judd on the bill to expedite the construction of a rail-road from New York to Lake Erie. n.t.p. [Albany? 1836?] O. pp. 8.

—— Remarks of Mr. Marvin in relation to the N. Y. & E. R.R. n.p., n.d. [Feb. 16-18, 1836.] O. pp. 16.

—— Remarks of Mr. Wetmore, of New York, on the bill "to expedite the construction of a railroad from New York to Lake Erie." n.t.p. [Albany? 1836?] O. pp. 11.
"Reported for the *Albany argus.*"

—— Report of Eleazar Lord, president of the N. Y. & E. R.R., in answer to resolutions of the Assembly of 25th and 27th Feb. and 10th March, 1840. n.t.p. [Albany, Mar. 20, 1840.] O. pp. 31.

—— Report of the Attorney-General in answer to a resolution of the Assembly, in relation to the N. Y. & E. R.R. n.t.p. [Albany, April 7, 1845.] O. pp. 16.

—— Report of the Board of commissioners appointed to determine the location of the N. Y. & E. R.R. n.t.p. [Albany], Jan. 16, 1847. O. pp. 84.

—— Report of the committee appointed to investigate the affairs of the N. Y. & E. R.R. n.t.p. [Albany], Jan. 18, 1842. O. pp. 82 + (1) + 671.

—— Report of the committee on rail-roads on a communication from the president of the N. Y. & E. R.R., asking an investigation of the affairs of that company. n.t.p. [Albany], May 8, 1841. O. pp. 92 + 101-105 + 155-160 + (1). 6 *fold. tables.*

—— Report of the committee on rail-roads, on the memorial of the president, directors and company of the N. Y. & E. R.R. and the memorials and petitions of citizens of sundry counties. n.t.p. [Jan. 19, 1839.] O. pp. 22. 1 *fold. map.*

—— Report of the committee on railroads, on the petition of the N. Y. & E. R.R. [to construct a portion of the line in Pennsylvania.] n.t.p. [Albany], Mar. 16, 1846. O. pp. 6.

—— Report of the committee on railroads, on the petition praying for a surrender of the lien of the State upon the N. Y. & E. R.R. n.t.p. [Albany], Jan. 25, 1845. O. pp. 5.

—— Report of the committee on rail-roads, on the petitions of the president, directors and company of the N. Y. & E. R.R., and of sundry citizens. n.t.p. [Feb. 13, 1838]. O. pp. 35.

—— Report of the committee on rail-roads, on sundry petitions of inhabitants of the southern tier of counties, relative to the N. Y. & E. R.R. n.t.p. [Albany], May 22, 1841. O. pp. 12.

—— Report of the committee to whom was referred the concurrent resolution in regard to the N. Y. & E. R.R. n.t.p. [Albany], Feb. 6, 1845. O. pp. 2.

—— Report of the comptroller, in relation to the issue of certificates of state stock to the N. Y. & E. R.R. n.t.p. [Albany], Feb. 6, 1841. O. pp. 18.

—— Report of the comptroller, in relation to the issue of state stocks to the N. Y. & E. R.R. n.t.p. [Albany, Feb. 8, 1840.] O. pp. 7.

—— Report of the comptroller, relative to state stocks issued to rail-road companies. n.t.p. [Albany], Jan. 26, 1841. O. pp. 16.

—— Report of the majority of the committee on rail-roads, in relation to the N. Y. & E. R.R. n.t.p. [Albany], Mar. 30, 1847. O. pp. 6.

—— Report of the majority of the committee on rail-roads, on the memorial of the president and directors of the N. Y. & E. R.R., and several petitions of sundry citizens of the southern tier of counties. n.t.p. [Mar. 3, 1840.] O. pp. 27.

—— Report of the minority of the commissioners to locate certain parts of the N. Y. & E. R.R. n.t.p. [Albany], Feb. 6, 1847. O. pp. 35.

—— Report of the minority of the committee on railroads, in relation to the location of the N. Y. & E. R.R. n.t.p. [Albany], Mar. 30, 1847. O. pp. 17.

—— Report of the N. Y. & E. R.R., in pursuance of a resolution of the Assembly, of Jan. 27, 1842. n.t.p. [New York, Feb. 16, 1843.] O. pp. 166. 1 *fold. table.*

—— A supplement to an act entitled "An act to authorize the N. Y. & E. R.R. to construct said road through a portion of Susquehanna county, in the State of Pennsylvania," passed the 16th Feb., 1841. [Albany], April 7, 1846. O. pp. 5.

A reprint of the Pennsylvania act authorizing the construction.

—— — *Legislature.* [*Manuscript:*] An act authorizing the construction of rail-roads upon Indian lands. Passed May 12, 1836. n.t.p. O. pp. 2.

—— [*Manuscript:*] An act further to amend the act to incorporate the N. Y. & E. R.R. n.p., n.d. O. pp. (1).

—— An act further to amend an act to incorporate the N. Y. & E. R.R., passed April 24, 1832. Passed May 8, 1835. n.p., n.d. O. pp. (1).

—— [*Manuscript:*] An act further to amend an act to incorporate the N. Y. & E. R.R., passed April 24, 1832. Passed May 11, 1836. n.p., n.d. O. pp. (2).

—— An act in relation to the construction of the N. Y. & E. R.R. [Albany, 184–?] O. pp. (1).

—— An act in relation to the construction of the N. Y. & E. R. R. Passed May 14, 1845. n.t.p. [Albany, 1845.] O. pp. 8.

—— An act to amend an act entitled: An act in relation to the construction of the N. Y. & E. R.R., passed May 14, 1845. [Albany, 1845.] O. pp. 2.

—— An act to amend an act entitled: An act to amend an act entitled: An act in relation to the construction of the N. Y. & E. R.R., passed May 14, 1845, and for other purposes, passed May 11, 1846. Passed October 18, 1847. [Albany, 1847.] D. pp. 2.

—— [*Manuscript:*] An act to amend an act entitled: An act to expedite the construction of a railroad from New York to Lake Erie, passed April 23, 1836. Passed April 16, 1838. n.p., n.d O. pp. (3).

—— [*Manuscript:*] An act to amend an act entitled: An act to incorporate the N. Y. & E. R.R., passed April 24th, 1832. Passed April 19, 1833. n.p., n.d. O. pp. (2).

—— [*Manuscript:*] An act to amend the act entitled: An act to incorporate the N. Y. & E. R.R. Passed April 11, 1842. n.t.p. O. pp. (3).

—— [*Manuscript:*] An act to amend the act entitled "An act to incorporate the N. Y. & E. R.R.; passed April 24, 1832." Passed 5th April, 1844. n.t.p. O. pp. (1).

—— An act to amend the several acts in relation to the N. Y. & E. R.R.; passed April 29, 1840. [Albany, 1840.] O. pp. 4.

—— [*Manuscript:*] An act to authorize the survey of a route for a rail-road from the city of New York to Lake Erie; passed May 6, 1834. n.p., n.d. O. pp. (2).

—— [*Manuscript:*] An act to expedite the construction of a rail-road from New York to

Lake Erie; passed April 23 1836. n.p., n.d. O. pp. (7).

—— [Charter; passed April 24, 1832.] n.t.p. [N. Y., printed, 1835?] O. pp. 16.

—— Charter and laws relating to the N. Y. & E. R.R.; general railroad law, &c. N. Y., 1849. O. pp. 128.

—— Charter; and list of officers and directors. N. Y., 1832. O. pp. 18 + (1).

—— *Same.* N. Y., 1835. O. pp. 33.

—— Report of the commissioners appointed by the legislature of the State of New York, by the act of May 11, 1846, to locate certain portions of the N. Y. & E. R.R., made to the legislature, Jan. 14, 1847. N. Y., 1847. O. pp. 41. 1 *fold. plan*, 1 *fold. map.*

—— —*Secretary of State.* Report of Benj. Wright, relative to the survey of the N. Y. & E. R.R. n.t.p. [Jan., 1835.] O. pp. 9.

—— —*Senate.* Documents accompanying the Governor's message. [Albany, Jan. 5, 1841.] O. pp. 35.

Document C. [Report concerning the operations of the N. Y. & E. R.R.]

—— Petition of the N. Y. & E. R.R., in relation to the different lines that have been surveyed in Sullivan and Broome counties, for the location of their road. [Albany], March 7, 1842. O. pp. 17.

—— Remarks of L. Beardsley, on the bill to expedite the construction of the N. Y. & E. R.R., April 20, 1836. [Albany? 1836?] O. pp. 9.

—— Report of the committee on railroads, in relation to the construction of the N. Y. & E. R.R. n.t.p. [Albany], April 29, 1845. O. pp. 6.

—— Report of the committee on rail-roads, on the bill from the Assembly, entitled, "An act to expedite the construction of a rail-road from New-York to Lake Erie." n.t.p. [March 3, 1836.] O. pp. 23.

—— Report of the committee on rail-roads, on sundry petitions for the immediate construction of the N. Y. & E. R.R. by the State. n.t.p. [Feb. 14, 1839.] O. pp. 15.

—— Report of the president and directors of the N. Y. & E. R.R., in answer to a resolution of the Senate of the 8th inst. n.t.p. [Albany], Feb. 17, 1843. O. pp. 15. 1 *fold. map.*

—— Speech of Mr. Mack on the bill to "expedite the construction of a railroad from New York to Lake Erie," April 6, 1836. [Albany? 1836?] O. pp. 14.

—— New York and Erie railroad and its affairs: a review of Mr. Baker's report and the reply thereto, drawn up by Major Thompson S. Brown, chief engineer, and comprised in the late annual report of the Board of directors to the Secretary of state. N. Y., 1844. O. pp. 30.

—— Opinions and decisions on the question whether the bill for conditionally releasing the N. Y. & E. R.R. from the state loan, is a majority bill. Albany, 1845. O. pp. 19.

—— Pennsylvania—*General Assembly.* [*Manuscript:*] An act to authorize the N. Y. & E. R.R. to construct said road through a portion of Susquehanna county in the state of Pennsylvania. n.t.p. [Feb. 16, 1841.] O. pp. (19).

—— Williams, E. Brief facts in relation to the N. Y. & E. R.R. n.t.p. [N. Y., Jan. 1842.] O. pp. (1) + 5–22.

New York and Harlem. Acts of incorporation, with statement and proposals for preferred stock. N. Y., 1848. D. pp. 28.

—— Proposals for a loan, with a statement of the condition of the company, made by the Board of directors to the stockholders and bondholders, Nov., 1857. N. Y., 1857. O. pp. 12.

—— Report of the directors, to the stockholders, May, 1856, Nov., 1856. N. Y., 1856. 2 vols. O.

—— [Resolutions adopted by the Board of directors, New York, June 19, 1840.] n.p. [1840?] O. pp. 14.

New York and Hartford. Report of the executive committee upon the statistics of business, and of the engineer upon the several routes for the contemplated N. Y. & H. R.R. via Danbury. Hartford, 1845. O. pp. 119. 1 *fold. map*, 1 *fold. plate.*

New York and New England. 3rd, 4th, 8th–11th, 14th annual report to the stockholders, made at annual meeting, Dec., 1878, '79, '83–86, '89. Boston, 1878–89. 7 vols. O.

New York and New Haven. Report of the Board of directors, to the stockholders, 1849, '51, '52, '54–59, '69, '70. N. Y., 1849–70. 11 vols. O.

Report for 1855, sq. Q.

—— Circular to the stockholders, April 21, 1859. N. Y., [1859.] O. pp. 8.

—— Engineer's report on the survey and primary location, Feb., 1845. New Haven, 1845. O. pp. 39.

—— Baldwin, R. S. Opinion as to the liability of the N. Y. & N. H. R.R. for the frauds of Robert Schuyler in issuing false certificates of stock. N. Y., 1856. O. pp. 21.

New York and Stonington—Connecticut—*General Assembly.* An act to incorporate the N. Y. & S. R.R. Passed May, 1832. n.p., n.d. O. pp. 9.

New York Central. Annual report to the State engineer and surveyor, for Aug. and Sept.,

1853; for the year ending Sept. 30, 1854–65. Albany, [1853]–65. 13 vols. Q.

—— Agreement between the Albany and Schenectady, the Schenectady and Troy, the Utica and Schenectady, the Mohawk Valley, the Syracuse and Utica, the Syracuse and Utica Direct, the Rochester and Syracuse, the Buffalo and Rochester, the Rochester, Lockport and Niagara Falls, and the Buffalo and Lockport; whereby the said companies are consolidated into one corporation, under the name of "The New York Central railroad co.," in pursuance of an act of the legislature of New York, passed Apr. 2, 1853. Albany, 1859. O. pp. 34.

—— Report of the committee appointed by the Board of directors, to examine the accounts of the treasurer. Albany, 1855. O. pp. 26.

—— Report of the committee appointed by the stockholders, made to the stockholders, Dec. 1858–61. Albany, [1858]–61. 4 vols. Q.
Report for 1858, n.t.p.

—— Report of a committee appointed Jan. 4th, 1855, by the directors, at the request of the stockholders, authorizing certain examinations to be made of the acts and doings of the directors and treasurer, subsequent to the consolidation, Oct. 24, 1855. Boston, 1855. O. pp. 47.

—— Report of the committee of seven stockholders, appointed 28th Nov., 1857, to their associate stockholders. N. Y., 1857. O. pp. 19.

—— Disaster to the N. Y. C. R.R: decisions of the general term of the Supreme court, in third judicial district, Sept. 1859. n.t.p. O. pp. 39.

—— Kirkland, C. P. An inquiry into the merits of the suit brought by the Attorney-general of New York, against the N. Y. C. R.R. to recover five millions of dollars of tolls, alleged to be unpaid. N. Y., 1860. O. pp. 22.

—— New York—*Legislature*. The statutes of the State of New York, specially relating to this company, and also, the general laws of the said state, relative to railroads, chronologically arranged. Albany, 1859. O. pp. 523.
Silas Seymour's copy.

New York Central and Hudson River. 17th–20th annual report [of the Board of directors to the stockholders] for the year ending Sept. 30, 1886–1889. Albany, N. Y., 1886–89. 4 vols. O.

—— The Adirondack mountains. [N. Y.,] 1893. nar. O. pp. 32. 23 *cts.*, 1 *fold. map.* (Four track series, no. 6.)
Cover title.

—— America's great resorts. [N. Y.,] 1893. folder. nar. O. (Four track series, no. 3.)

—— The "Exposition flyer," limited. N.Y., [1893?] folder. nar. D.

—— Fishing among the Thousand islands of the St. Lawrence; by James Churchward. N.Y., 1894. nar. O. pp. 56. 40 *cts.*, 1 *fold. map.* (Four track series, no. 15.)

—— 436½ miles in 425½ minutes: all the fast runs of the world eclipsed. [N. Y., 1893?] nar. O. pp. 26. 8 *cts.* (Four track series, no. 14.)
Cover title.

—— Health and pleasure on America's greatest railroad: being a list of the summer resorts and excursion routes on the N. Y. C. & H. R. R.R., for the season of 1890. N.Y., [1890.] O. pp. (2) + 5–276. 63 *cts.*, 5 *fold. maps.*

—— *Same.* [N.Y.,] 1894. O. pp. 423 + cxii. 275 *cts.*, 1 *fold. map.* (Four track series, no. 5.)

—— Illustrated catalogue of the "Four track series." [N. Y.,] 1894. nar. O. pp. 32. 49 *cts.* (Four track series, no. 16.)

—— In the Catskill mountains. [N. Y.,] 1893. nar. O. pp. 32. 25 *cts.* (Four track series, no. 12.)
Cover title.

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—— [Circular letter, signed by the treasurer, announcing a dividend payable on or after Jan. 2, 1874.] n.t.p. [N. Y., Dec. 1873.] leaflet. O.

New York, Ontario and Western. 5th, 6th, 8th–11th annual report of the president and officers to the stockholders, 1884, '85, '87–90. Cambridge; N. Y., 1885–90. 6 vols. O.

—— [Agreement between the N. Y. O. & W. ry.; the N. Y. C. & H. R. R.R.; West Shore R.R.; and J. P. Morgan, C. M. Depew, A. Green, Reorganization committee of the New York, West Shore and Buffalo ry.] n.t.p. [1st Jan., 1886.] O. pp. 17.

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—— —[Report of the joint standing committee, to whom was referred the petition of Robert Codman and others, for leave to lay out and construct a railroad from the Norfolk County railroad, at South Dedham, to a point in Boston proper.] n.t.p. [Boston? April 4, 1850.] O. pp. 8.

North Missouri. 5th annual report of the directors to the stockholders, together with the reports of the chief engineer and treasurer, made April, 1859. St. Louis, 1859. O.

—— Memorial of the N. M. R.R. convention, [to the General Assembly of Missouri.] Jefferson City, 1852. O. pp. 12.

North Pacific Coast. Articles of association and by-laws: incorporated Dec. 19th, 1871. San Francisco, 1871. D. pp. 24.

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—— Indianland and wonderland; by Olin D. Wheeler. St. Paul, 1894. pp. (3) + 9–108. 26 *photo. plates*, 3 *maps.*

—— Map showing location. n.p., n.d. Scale, 1: 6,366,000; size, 49 x 70.7 cm.

—— Memorial of the Board of direction of the company, with communications from General Grant, General Meigs, and General Ingalls, and report of the engineer in chief. Nov., 1867. Washington, 1868. O. pp. 39. 1 *fold. map.*

—— New 7-30 gold loan of the N. P. R.R., secured by first mortgage on railroad and land grant; for sale by Jay Cook & Co., bankers. n.p., n.d. broadside. F[5].
In vol. "Northern Pacific. Pamphlets. 1."

—— Die Nord-Pacific-Eisenbahn und der Staat Dakota; Mittheilungen für Landbebauer und Alle, die ein eigenes Heim suchen. N. Y., 1883. O. pp. 24. 1 *fold. map.*
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—— Partial report to the Board of directors, of a portion of a reconnoissance made in the summer of 1869, between Lake Superior and the Pacific ocean; by Thomas H. Canfield; accompanied with notes on Puget sound; by Samuel Wilkeson. n.p. May, 1870. O. pp. 96 + 44. 2 *fold. maps.*
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—— Sketches of wonderland; by Olin D. Wheeler. St. Paul, 1895. O. pp. (3) + 7–108. 29 *photo. plates*, 2 *maps.*

—— Special report of a reconnoissance of the route for the N. P. R.R. between Lake Superior and Puget sound, via the Columbia river, made in 1869 by W. Milnor Roberts, under the direction of Jay Cooke & Co., bankers. [Philadelphia? 1869?] O. pp. 51 + (4).

—— Statement of its resources and merits, as presented to the Pacific railroad committee of Congress, H. R.; by J. G. Smith, R. D. Rice, W. B. Ogden, — Marshall, E. F. Johnson. March, 1868. Washington, 1868. O. pp. 24.

—— Johnson, E. F. Trans-continental railways of the United States; remarks at the railway convention held at Oswego, N. Y., Oct. 6, 1870. Hartford, 1871. O. pp. 36.

—— Land grant (The) of the N. P. R.R., as described in debate in the Senate of the United States, and in the House of Representatives, by those who felt constrained to vote against its increase. [Cambridge, printed, 1870?] O. pp. 23.
In vol. "Northern Pacific. Pamphlets. 1."

—— United States—*House of Representatives.* Report [from] the Committee on public lands, to whom were referred sundry bills for the forfeiture of the land grant to the N. P. R.R.; ordered printed, March 22, 1886. n.t.p. [Washington, 1886.] O. pp. 21.
In same.

—— — Senate. A bill to forfeit the unearned lands granted to the N. P. R.R. to aid in the construction of a railroad from Lake Superior to Puget's sound, and to restore the same to settlement, and for other purposes. n.t.p. [Washington, 1884.] Q. pp. 3.
In same.

—— Report [from] the Committee on public lands, to whom was referred the bill (S. 2,036) to forfeit the unearned lands granted to the N. P. R.R. to aid in the construction of a railroad from Lake Superior to Puget's sound, and for other purposes: ordered printed, June 26, 1884. n.t.p. [Washington, 1884.] O. pp. 8.
In same.

Northern (*fo California.*) Articles of association, incorporation, amalgamation and consolidation of the N. ry., the Winters and Ukiah ry., the Woodland, Capay and Clear Lake R.R., the West Side and Mendocino R.R., the Vaca Valley and Clear Lake R.R., the San Joaquin and Sierra Nevada R.R., the Sacramento and Placerville R.R., the Shingle Springs and Placerville R.R., the Santa Rosa and Carquinez R.R., the Amador Branch R.R. and the Berkeley Branch R.R. n.p. 1888. F. pp. 30.

Northern Railroad of New Jersey. 1st, 2nd annual report of the directors to the stockholders. N. Y., 1858–59. 2 vols. O.

Northern Railroad, New York. Report of the directors to the stockholders, June, 1848, '49, '52, '55. Ogdensburg, Boston, 1848–55. 4 vols. O.

—— Report of the committee of investigation, to the stockholders, May, 1850. Concord, [1850.] O. pp. 64. 1 *fold. table.*

Norwich and Worcester. Report of directors to the stockholders, July, 1850. Norwich, 1850. O.

—— General statements by the directors to the stockholders. Norwich, 1840. O. pp. 18.
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—— Report of condition, 1879. Boston, 1879. O. pp. 20.

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Ohio. LELAND, C. P. The Ohio R.R.; that famous structure built on stilts. N.Y., 1891. O. pp. (15).
Extracted from the *Magazine of Western history*, vol. 13, April, 1891.

Ohio and Mississippi Railroad. Annual reports of the president and directors to the stockholders, for the years 1859–60; for 1867, [with] a report of the O. & M. railway, re-organized and consolidated from Nov. 1, 1867. Cincinnati, 1860–68. 2 vols. O.

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—— Circular letter of trustees of creditors and stockholders, to the holders of certificates. n.t.p. [N. Y., April 17, 1863.] sq. O. pp. 4.

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Cover title.

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In vol. "Ohio & Miss. Pamphlets. 1."

—— INDIANA—*General Assembly.* An act to incorporate the O. & M. R.R. Passed Feb. 14, 1848. Cincinnati, 1848. O. pp. 16.

Ohio and Mississippi Railway. Report of the president and directors, to their stockholders, for the year ending June 30, 1873, 1874. Saint Louis, 1873–74. 2 vols. O.

—— Earnings; [from Jan. 1858–Feb. 1868]. n.t.p. [1868?] sq. O. pp. (3).

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Ohio and Pennsylvania. 2nd annual report of the president and directors to the stockholders. Pittsburgh, 1850. O.

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—— Report of the receiver to the United States court, Feb. 8th, 1887. Lond., 1887. O.
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In same.

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—— [Statement submitted to the legislature of Missouri.] n.t.p. [1857?] O. pp. 16.

—— Missouri—*State Geologist.* Geological report of the country along the line of the South-Western branch of the P. R.R., State of Missouri; by G. C. Swallow, state geologist. To which is prefixed a memoir of the Pacific railroad. St. Louis, 1859. O. pp. xvii + 93 + (1). 2 *plates*, 1 *fold. map.*

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"Excerpt *Minutes of Proceedings of the Institution of Civil Engineers*, vol. 39, session 1874–75, pt. 1."

—— TYSON, J. R., *chairman.* Address [setting forth the advantages of the proposed P. R.R.] of the committee of seven, to the citizens of Philadelphia and of Pennsylvania, appointed at a town meeting, held at Philadelphia, 28th April, 1846. [Philadelphia,] 1846. O. pp. (2) + 5–38.

Peoria and Oquawka. Exhibit: July, 1855. N. Y., 1855. O. pp. 35.

Peru and Indianapolis. Address delivered by David Wallace, at the celebration of the P. & I. R.R., at Noblesville, March 11, 1851; published by request of the president and directors. Indianapolis, 1851. O. pp. 19.

—— Exhibit of the financial condition and business prospects; with the charter of incorporation, amendments, and orders of the Board. Indianapolis, 1852. O. pp. (2) + 5–21.

Philadelphia and Atlantic City. Prospectus of the P. & A. C. ry.; organized March 21, 1876. Philadelphia, 1877. O. pp. (2) + 5–25. 1 *fold. map.*

Philadelphia and Erie. PERKINS, J. C. Resources of the P. & E. R.R. region, in letters to the *Erie daily dispatch.* Erie, Pa., 1868. O. pp. 179.

Philadelphia and Reading. Report of the president and managers, to the stockholders, Jan. 1846, '48, '51–82. Philadelphia, 1846–82. 34 vols. O.

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1888, 1893: "With the report of the Philadelphia and Reading Coal and Iron co."

—— An act of incorporation [and by-laws] of the P. & R. R.R: approved April 4th, 1833; and the supplements thereto. Philadelphia, 1883. O. pp. 76 + iv.

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—— *Same.* Dec. 11th, 1885. [Philadelphia, 1885?] O. pp. 62.

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—— An address to the friends of the railroad from Philadelphia to Reading, proposed to be located on the west side of the river Schuylkill. Philadelphia, 1831. O. pp. 8.

In vol. "Philadelphia and Reading. Pamphlets. 1."

—— Agreement of creditors and stockholders with the Board of reconstruction trustees. [Philadelphia, Mar. 22, 1886]. O. pp. 27.

Cover title. In same, 2.

—— Catalogue of specimens of the mineral and agricultural products from the line of the P. & R. R.R.; of rails, &c., manufactured at the P. & R. R.R. rolling mill, and of models of bridges in use on the line; exhibited at the U. S. Centennial exhibition, Philadelphia, 1876. Philadelphia, 1876. O. pp. 44.

In same, 1.

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—— Report of the engineers, with accompanying documents; and the report of a committee of the Board to whom the same were referred. Philadelphia, 1838. O. pp. 14.
In same, 1.

—— Statement of present condition of the P. & R. R.R. and the Philadelphia & Reading Coal & Iron co., with plan for their financial re-organization; by Franklin B. Gowen, president. Philadelphia, 1880. O. pp. 81.
Cover title. In same, 2.

—— Verbatim report of the general meeting of the share and bondholders, and of the bondholders of the Perkiomen R.R.; held London, June 6th, 1877, Dec. 23rd, 1880, Feb. 4th, Aug. 5th, Nov. 10th, 1881, April 21st, 1882. Lond., Philadelphia, 1877–82. 6 vols. bd. in 1. O.

—— Extracts from the newspapers of England and America on the management of the Reading co.; [compiled by "A stockholder."] n.p., n.d. [1879?] O. pp. (2) + 5–46.
In vol. "Philadelphia and Reading. Pamphlets. 1."

—— Gowen, F. B. Argument before the joint committee of the legislature of Pennsylvania, appointed to inquire into the affairs of the Philadelphia and Reading Coal and Iron co. and the P. & R. R.R., at Atlantic City, New Jersey, July 29th and 30th, 1875, on behalf of said company. Philadelphia, 1875. O. pp. 114. 2 *fold. maps.*
In vol. "Philadelphia and Reading. Arguments and speeches of F. B. Gowen."

—— Argument before the judiciary committee of the Senate of Pennsylvania, on behalf of the railroad and mining interests of Pennsylvania, March 30th, 1871. Philadelphia, 1871. O. pp. 38.
In same.

—— McCalmont Brothers and Co., *editors.* Mr. Gowen's defence; speeches of Franklin B. Gowen (ex-president,) and others, concerning the P. & R. R.R., delivered at a public meeting held at London, 10th Nov., 1881. Lond., 1881. O. pp. 72.
In same.

—— Pennsylvania—*Legislature.* Report of the joint committee, appointed to inquire into the affairs of the Philadelphia and Reading Coal and Iron co. and the P. & R. R.R. Philadelphia, 1876. O. pp. 19.
In same.

—— Sanderson, J. M. A letter on the present condition and future prospects of the Reading railroad in January, 1855. N. Y., 1855. O. pp. 13.
In vol. "Philadelphia and Reading. Pamphlets. 1."

—— United States—*House of Representatives.* [Report from the Committee on interstate and foreign commerce, appointed to investigate whether alleged combinations between the P. & R. R.R. and other railroads, or between any of these railroads and any other roads or canals or producers of coal, exist for any illegal or improper purposes. Ordered printed, Jan. 18, 1893.] n.t.p. [Washington, 1893.] O. pp. ix + 261.
In same, 3.

Philadelphia, Wilmington and Baltimore. 11th, 12th, 14th, 26th, 35th–55th annual report, made Jan., 1849, '50, '52; year ending Oct. 31, 1863, 1872–92. Philadelphia, 1849–93. 25 vols. O.

—— By-laws and organization for conducting business; adopted by the Board of directors, Feb. 27, 1893. [Philadelphia, 1893.] O. pp. 73.

Pittsburgh, Cincinnati, Chicago and St. Louis. 1st–5th annual report of the Board of directors; with abstracts from the reports of the comptroller and the general manager, for 1890–94. Philadelphia, 1891–95. 5 vols. O.

Pittsburgh, Fort Wayne and Chicago. Semi-annual report of the directors to the shareholders, June 30, 1858. Pittsburgh, 1858. O.

—— 5th annual report, for 1861. Pittsburgh, 1862. O.

—— Plan and statement in regard to funding coupons. n.p., n.d. [N. Y., Mar. 1st, 1858.] O. pp. 16.

Pittsburgh, Fort Wayne and Chicago Railway. 1st, 3rd, 5th, 7th, 22nd annual report of the Board of directors to the stockholders and bondholders, for 1862, '64, '66, '68, '84. Pittsburgh, 1863–85. 5 vols. O.

—— History, organization, and legal proceedings relative to the P. F. W. & C. ry. Pittsburgh, 1863. O. pp. (1) + 10 + (3) + 168.

—— Organization and by-laws for conducting business. 6th ed. Pittsburgh, 1869. O. pp. 29.

—— Statement of the trustees relative to the reorganization, and laws and documents in connection therewith, and the new securities. N.Y., 1862. O. pp. 8 + 95.

Pittsburgh, Titusville and Buffalo. 3rd-5th annual report, for 1878–1880. Philadelphia, 1879–81. 3 vols. O.

Portland and Ogdensburg. 11th, 17th annual report of the president and directors to the stockholders, Jan., 1880, 1886. Portland, 1880–86. 2 vols. O.

—— Vermont division of the P. & O. trunk railroad line; comprising the Lamoille valley, Montpelier, and St. Johnsbury and Essex county railroad companies; a statement showing the condition of the enterprise, progress of the work, resources of the road. N. Y., 1871. O. pp. (4) + 7-24. 1 *fold. map.*

Portland and Rochester. 16th report, for the year ending Sept. 30, 1881; by Geo. P. Wescott, receiver. Portland, Me., 1881. O.

Portland, Rutland, Oswego and Chicago. 1st annual report of the directors, submitted July 26th, 1871. Portland, 1871. O.

Portland, Saco and Portsmouth. An act to establish the P. S. & P. R.R.; approved March 14, 1837; [with the by-laws of the company.] Boston, 1841. S. pp. 16.

Providence and Springfield. Annual reports of the directors, for the years ending September 30, 1873–1875. Providence, 1875. 1 vol. O.

Providence and Worcester. 4th–8th, 10th–20th, 21st–26th, 28th–43rd annual report of the directors to the stockholders; May, 1849, '50, Jan. 1851–52, Nov. 1852, '54–64, '66–70, Sept. '72–87. Providence, 1849–87. 37 vols. O.

—— The charters, with the by-laws. Providence, 1845. D. pp. 35.

—— Facts and estimates relative to the business on the route of the contemplated P. & W. R.R. Providence, 1844. O. pp. 30. 1 *fold. table.*

—— Further considerations for the stockholders. Providence, 1863. O. pp. 27.

Racine and Mississippi. 4th annual report, Jan., 1857. N. Y., 1857. O.

—— 3rd annual report to the trustees in possession; for the year ending May 10, 1862. Racine, 1862. O.

—— The charter, together with acts authorizing city and town subscriptions, and proceedings under the same. Racine, 1855. D. pp. 39.

—— First mortgage bonds on second section: total issue $700,000, convertible into stock, redeemable in 1876. n.t.p. [N.Y., April 6, 1857.] sq. Q. pp. (3.) 1 *map.*

Racine, Janesville and Mississippi. 1st annual report, Jan. 1854. Racine, 1854. O.

—— [Circular of information.] n.p., n.d. [Racine, July 1st, 1853.] O. pp. 17. 1 *fold. map.*

Richmond and Covington. The R. & C. R.R. bonds: to the bondholders of the Columbus, Piqua and Indiana R.R., and to others interested in opening a central railroad route through Columbus and Indianapolis, to the Mississippi river. n.t.p. [Aug. 3, 1862.] O. pp. 8.

Richmond and Danville. 20th, 28th annual report, embracing the reports of the officers, together with the proceedings of stockholders, Dec. 1867, 1875. Richmond, 1867–75. 2 vols. O.

Richmond and Southwestern. Preliminary report concerning the resources of the country adjacent to the line of the proposed R. & S. ry.; by N. S. Shaler, state geologist of Kentucky. Cambridge, 1880. Q. pp. (1) + v + 3–54. 2 *fold. maps.*

Rio Grande and Pecos. Prospectus. Laredo, Texas, June 1st, 1882. O. pp. (3) + 7–45.

Rio Grande Western. At the foot of Pike's Peak. n.p., n.d. [1893?] obl. T. pp. (16). 20 *cts.*
In vol. "Rio Grande Western. Pamphlets. 1."

—— Gold and silver treasure vaults of Tintic district, Utah. [Salt Lake City, 1892?] D. pp. 32. 4 *illus.*, 1 *map.*
In same. Cover title.

—— Official time tables, October, 1893. n.p., [1893.] nar. O. pp. 48.

—— The promised land; information for the visitor to the World's Fair, Chicago, 1893. n.p., n.d. [1893?] Tt. pp. 32. 13 *illus.*
Cover title. In vol. "Rio Grande Western. Pamphlets. 1."

—— Souvenir: the World's Columbian exposition, Chicago, 1893. n.p., n.d. [1893?] obl. Fe. pp. (28). 18 *cts.*, 3 *maps.*
Cover title. In same.

—— [Time tables. Chicago, 9/21/93.] folder. nar. O.

—— What may be seen crossing the Rockies, en-route between Ogden, Salt Lake and Denver. n.p., n.d. [1893?] T. pp. 36. 33 *illus.*
Cover title. In vol. "Rio Grande Western. Pamphlets. 1."

—— Donan, P. *and* Warman, C. Utah: a peep into a mountain-walled treasury of the gods. n.p., n.d. [1891.] O. pp. 96. 62 *illus.*, 1 *map.*
In same.

Rochester and Syracuse. [Circular letter to stockholders, announcing a call for twenty dollars a share on the scrip stock of the company; J. E. Thayer & Co. Boston, Oct. 11, 1852.] D. pp. (1).
Addressed to "Hon. Edward Everett, Boston."

Rockford, Rock Island and St. Louis. [Circular.] N. Y., 1868. O. pp. (1) + 54. 1 *fold. map.*

Rome, Watertown and Ogdensburg. Annual report made to the State engineer and surveyor of New York, for the year ending Sept. 30, 1862, and financial statement for stockholders. N. Y., 1863. O.

—— Annual report of the Board of directors for the year ending Sept. 30, 1885, 1887. N. Y., 1886–88. 2 vols. O.

Rutland. Annual report to the stockholders, for 1873–75, '79, '84, '86, '87. Rutland, 1873–87. 7 vols. O.

—— Report of the special auditor upon the financial condition, and an extract from the records of the company concerning the action of the directors in reply to letter of Geo. B. Chase. Nov., 1879. Rutland, 1879. O. pp. 21.

Rutland and Burlington. Report of the directors at their annual meeting, 20th June, 1849, 20th Sept., 1854. Burlington, Boston, 1849–54. 2 vols. O.

Sacramento Valley. Report of the committee of Board of directors, made Aug. 7th, 1855. San Francisco, 1855. O. pp. 12.
Cover title.

St. Croix and Lake Superior. [Prospectus.] Sept., 1862. N. Y., 1862. O. pp. 20. 1 *map.*

St. Louis, Alton and Chicago. General report of the receiver, to trustees of bondholders, with report of the Chicago and Alton R.R., from 16th Oct. to 31st Dec., 1862. Chicago, 1863. O. pp. 33.

St. Louis, Alton and Terre Haute. 14th–16th, 24th–26th, 28th annual report of the Board of directors, for 1876–78, '86–88, '90. N. Y., 1877–91. 7 vols. O.

—— Charter of the St. L. A. & T. H. R.R., Terre Haute & Alton R.R., Belleville & Illinoistown R.R., with the several amendments thereto, and the general railroad law of the State of Illinois. St. Louis, 1863. O. pp. 71.

—— Report and statements of the Board of directors, exhibiting the operations and business of the company, from 1st July, 1862, to 1st Jan., 1864, and its financial condition on 1st Jan., 1864. N. Y., 1864. O. pp. 30. 2 *fold. tables.*

St. Louis and Iron Mountain. Prospectus: first mortgage bonds. N. Y., 1867. O. pp. (2) + 5–12 + (1). 1 *fold map.*

—— *Same.* N. Y., 1868. O. pp. (2) + 5–19 + (1). 1 *fold. map.*

—— Missouri—*General Assembly.* An act to incorporate the S. L. & I. M. R.R: approved Mar. 3, 1851. St. Louis, 1852. O. pp. 14.

St. Louis and San Francisco. 1st, 3rd–5th, 7th, 8th, 11th, 12th annual report; 1877, '79–81, '83, '84, '87, '88. N. Y., St. Louis, 1878–89. 8 vols. O.

St. Louis and Southeastern. 2nd annual report to the stockholders, for the year ending July 31st, 1874. St. Louis, 1875. O.

St. Louis, Iron Mountain and Southern. 1st annual report of the president and directors to the stockholders, 1874. St. Louis, 1875. O.

—— To the stockholders and bondholders; reply of Thomas Allen, president, to the statement of Messrs. S. G. and G. C. Ward, attorneys for Baring Brothers and co. n.p., n.d. [St. Louis, Oct. 20, 1877.] O. pp. 41.
Cover title.

St. Paul and Chicago. Statement respecting the issue of its first mortgage land grant sinking fund bonds, amounting to four millions of dollars. St. Paul, 1867. O. pp. 15. 1 *fold. map.*

St. Paul and Northern Pacific. Prospectus of the S. P. & N. P. ry. and its forty-year six per cent. gold bonds, issued June 20, 1883, by Drexel, Morgan & co. n.p., n.d. O. pp. 12.

St. Paul and Pacific. Statement, with the acts of Congress granting lands to aid the construction of the road, and acts of the State of Minnesota, with charter, &c. N. Y., 1862. O. pp. 72. 1 *fold. map.*

St. Paul and Sioux City. Annual report, for 1876, to the stockholders, Jan. 1, 1877. St. Paul, 1876. O.
Cover title.

St. Paul, Minneapolis and Manitoba. 11th annual report, year ending June 30, 1890. St. Paul, 1890. O.

—— To Central Trust co. of New York: consolidated mortgage, Minnesota and Dakota, $50,000,000, dated May 1st, 1883. St. Paul, 1883. O. pp. 43.

San Francisco and Marysville. Reports of the Board of directors and chief engineer, at the annual meeting of stockholders, May 10th, 1860. Marysville, 1860. O.

San Francisco and North Pacific. 4th annual report and statement of accounts for the year ending June 30, 1893. [San Francisco, 1893.] O.

—— By-laws; adopted June 22d, 1872. n.p., [1872.] S. pp. 5.
Cover title.

San Francisco and San Joaquin Valley—Traffic Association of California. Prospectus of the S. F. & S. J. V. R.R.; [signed J. S. Leeds, traffic manager.] [San Francisco, June 19, 1893.] T. pp. 16.
Cover title.

—— Walker, D. H. Pioneers of prosperity. San Francisco, 1895. D. pp. (4) + 7–191.
Contents:—A general review.—The Traffic Association of California.—First competing railroad, [S. F. & S. J. V. R.R.], pp. 85–136.—The North American navigation company.—The Merchants' Shipping Association.—The California League of progress.

San Pablo and Tulare. By-laws; adopted July 21st, 1871. n.p., [1871?] S. pp. 5.
Cover title.

Seaboard and Roanoke. Statement. Boston, 1847. O. pp. 15. 1 *fold. map.*

—— NORFOLK (*Va.*)—*Select and Common Councils.* Report of the committee appointed to ascertain the present condition and prospects of the S. & R. R.R. Norfolk, 1849. O. pp. 20.

Seekonk Branch—MASSACHUSETTS—*Senate.* Report and bill on the petition of the S. B. R.R. [for an amendment of their charter, etc.] n.p., n.d. [Boston? April 18, 1838.] O. pp. 64.

—— Report and bill concerning the S. B. R.R. and the Boston and Providence R.R. n.p., n.d. [Boston? March 11, 1839.] O. pp. 13.

Selma and Gulf. First mortgage eight per cent. gold bonds issued by the S. & G. R.R. of Alabama; guaranteed, principal and interest, by the State of Alabama. N. Y., 1870. O. pp. 23.

Somerset and Cambria. Proceedings connected with the formal opening of the S. & C. R.R., including the banquet at Johnstown, Pa., on Nov. 3, 1881. Printed by order of the Directors of the Baltimore and Ohio R.R. Baltimore, 1882. O. pp. 32.

South Carolina Canal and Railroad. Semi-annual report of the direction, to the stockholders, Oct. 31, 1834; with accompanying documents. Charleston, 1834. O.

—— [Report of the engineer to the president and directors. Charleston, Oct. 10th, 1829.] n.t.p. O. pp. 16. 1 *fold. table.*

Southern. Report of the final location of the Southern railroad, from Brandon, Mississippi, to the Alabama line, in the direction of Charleston and Savannah; by H. Haupt, chief engineer. Philadelphia, 1853. D. pp. 21. 1 *fold. map.*

Southern Minnesota. Prospectus, maps and statistics; bankers, P. M. Myers & co. N. Y., 1869. O. pp. (2) + 5–20. 2 *fold. maps.*

Southern Pennsylvania Iron and Railroad Company. Report of the president and directors to the stockholders, Jan. 28, 1871. Philadelphia, [1871.] O.

Staten Island. Reports of the committee and engineer, to the president and directors, embracing surveys and estimates. N. Y., 1852. O. pp. 28. 1 *fold. map.*

Stockton and Copperopolis. By-laws; adopted June 22d, 1872. n.p., [1872.] S. pp. 5.
Cover title.

Stockton and Visalia. By-laws; adopted June 22d, 1872. n.p., [1872.] S. pp. 5.
Cover title.

Sullivan and Erie Coal and Railroad Company. Statement concerning the Sullivan and Erie Coal and Railroad co. of Pennsylvania, with a map and description of its mines, property, road and connections; its work, progress, and future prospects, and the security of its first mortgage bonds. Boston, 1868. O. pp. 23. 1 *fold. map.*

Summit Branch. Report of the directors to the stockholders, together with the reports of the treasurer, railroad superintendent and mining superintendent; Dec., 1866. Boston, 1867. O.

Sunbury and Erie. 1st, 2nd report of Edward Miller, engineer in chief, to the managers, Jan. 12, 1839, March 1, 1840. Philadelphia, 1839–40. 2 vols. O.

Susquehanna and Delaware. Report on the survey of a route for the proposed Susquehanna and Delaware rail-road; from Pittston on the Susquehanna, to the Delaware river, at the Water Gap; with an estimate of its cost; by Ephraim Beach; with preliminary observations. N. Y., 1832. O. pp. 38 + 16. 1 *fold. map.*

Syracuse and Binghamton. Report of the chief engineer, made to the directors, July 9, 1852. Syracuse, 1852. S. pp. 21.

Terre Haute, Alton and St. Louis. Report of the president and directors to the stockholders, Jan. 1st, 1857. N. Y., 1857. O.

—— Report of the trustees to the bondholders; from Dec. 12th, 1859, to Sept. 30th, 1860. N. Y., 1861. O.

Terre Haute and Alton. Charter, with the several amendments thereto, and the general rail-road law of the State of Illinois, with copies of the mortgages and bonds issued by said company. Feb., 1855. N. Y., 1855. O. pp. 63.

Terre Haute and Richmond. 10th annual report of the president and directors to the stockholders, for the year ending Nov. 30, 1858. Terre Haute, 1858. O.

—— Report of the president and engineer, Aug. 27, 1849. Indianapolis, 1849. O. pp. 15.

Texas and New Orleans. Annual report, for 1885, 1886. n.p., [1886–87.] 2 vols. F., folded to nar. O.

—— Brief prospectus of the T. & N. O. R.R., Texas division; late Sabine and Galveston Bay Railroad and Lumber company. N.Y., 1860. O. pp. 24. 1 *fold. map.*
Cover title.

Texas and Pacific. 5th annual report of the Board of directors to the stockholders, Aug. 8, 1876. Philadelphia, 1876. O.

—— Annual report to the stockholders, for 1888. N. Y., 1889. O.

—— Argument of John C. Brown, vice-president, before House committee on Pacific railroads, Jan. 25, 1878, in behalf of the T. & P. ry. Washington, 1878. O. pp. 38.
Cover title. In vol. "Texas and Pacific. Pamphlets. 1."

—— Charter and by-laws: chartered by act of Congress, Mar. 3, 1871. N. Y., 1872. O. pp. 76.
In same.

—— Exhibits: acts of Congress, 1871–1872–1875; letter of Jay Gould and resolutions; directors and officers; route of road. n.p., n.d. Q. pp. (1) + 20.
Cover title. In same.

—— Memorandum of surveys, showing the general features of the line, and character and resources of the country along its route, together with reasons for its prompt completion. Philadelphia, 1876. O. pp. 40. 1 *fold. map.*
In same.

—— What I saw in Texas; by John W. Forney. n.p., n.d. [Philadelphia, printed.] O. pp. 92. 3 *cts.*, 1 *map.*
Cover title.

—— Cincinnati—*Chamber of Commerce.* An adverse report to the proposed Texas Pacific railroad subsidy, made to the Cincinnati Chamber of Commerce, and prepared by C. W. Woolley. Cincinnati, 1875. O. pp. 13.

—— Press (The) and the people on the importance of a southern line of railway to the Pacific and in favor of government aid to the T. & P. ry. Philadelphia, 1875. O. pp. 72. 1 *fold. map.*
In vol. "Texas and Pacific. Pamphlets. 1."

—— Scott's Texas Pacific bill; ought it to be passed. n.t.p. [1875?] O. pp. 23.
In vol. "Southern Pacific. Pamphlets. 1."

—— United States—*House of Representatives.* Amendment in the nature of a substitute for the bill of the House, H. R., 4531, to secure the construction of the Texas and Pacific from its present terminus at Fort Worth to San Diego on the Pacific ocean, by the shortest and most direct route and in the most economical manner; and also to secure cheap transportation to the Pacific ocean on the line of said road. [Ordered printed, Jan. 24, 1877.] n.t.p. [Washington, 1877.] Q. pp. 13.
In vol. "Texas and Pacific. Pamphlets. 1."

—— A bill amendatory of, and supplementary to, the act entitled "An act to incorporate the Texas Pacific R.R., and to aid in the construction of its road, and for other purposes," approved Mar. 3d, 1871, and the act supplementary thereto, approved May 2d, 1872, and the act entitled "An act granting lands to aid in the construction of a railroad and telegraph-line from the States of Missouri and Arkansas to the Pacific ocean," approved July 27, 1866. [Read, Jan. 5, 1876; ordered printed, with proposed amendments, Dec. 13, 1876.] n.t.p. [Washington, 1876.] Q. pp. 45.
In same.

—— —*Senate.* A bill to secure the speedy completion of the Texas Pacific R.R. from a point at or near Marshall, county of Harrison, State of Texas, to the southeastern boundary-line of the State of California, and to authorize the S. P. R.R. Co. to aid in building the same, and also to build a branch of its road to San Diego. [Read, Jan. 10, 1876.] n.t.p. [Washington, 1876.] Q. pp. 9.
In same.

Texas Western. Southern Pacific railroad: survey of a route for the Southern Pacific R.R., on the 32nd parallel; by A. B. Gray, for the Texas Western R.R. Cincinnati, O., 1856. O. pp. (2) + 5–110. 33 *plates.*

—— Charter of the T. W. R.R. and extracts from reports of Col. A. B. Gray and Secretary of War, on the survey of route, from eastern borders of Texas to California. Cincinnati, O., 1855. O. pp. 40. 1 *fold. map.*

—— Survey of route, its cost and probable revenue, in connection with the Pacific railway; nature of country, climate, mineral and agricultural resources; [by A. B. Gray.] Cincinnati, O., 1855. O. pp. 108.

Toledo and Wabash. 1st annual report to the stockholders, for the year ending August 31, 1859. Toledo, 1860. O.

Toledo, Ann Arbor and Grand Trunk. Prospectus; first mortgage gold bonds. N. Y., 1881. O. pp. (8). 1 *fold. map.*

Toledo, Ann Arbor and North Michigan. 8th annual report, for the year 1888. n.p., n.d. O.

Toledo, Peoria and Warsaw. 1st annual report of the president and directors, for 1865; issued March, 1866. Peoria, 1866. O.

Toledo, Peoria and Western. Annual report of the Board of directors, exhibiting the operations and business, for the year ending June 30, 1890–1894. Peoria, 1890–94. 5 vols. O.

—— [Letter to the bondholders from the president. Peoria, Sept. 10, 1894.] F. pp. (1).

Troy and Greenfield Railroad and Hoosac Tunnel. [Report to the House of Representatives of the operations for the year ending Sept. 30, 1879; embracing detailed estimates of expenses for the next ensuing year.] n.t.p. [Boston, Jan. 19, 1880.] O.

—— Bird, F. W. The road to ruin; or, the decline and fall of the Hoosac tunnel. 2nd ed. Boston, 1862. O. pp. 46. 1 *fold. plate*, 1 *plate.*
In vol. "Troy and Greenfield R.R. Pamphlets. 1."

—— Hoosac tunnel: history from 1855 to 1876; right of redemption by Troy and Greenfield R.R.; conditions of surrender to the State; how the money of the State has been expended; interesting and important facts. Boston, 1876. O. pp. 16.
In same. "Reprint from *Boston evening traveller*, March, 1876."

—— Massachusetts—*Commissioners upon the Troy & Greenfield R.R. & Hoosac Tunnel.* Report, to the Governor and Executive council of Massachusetts; Feb. 28, 1863. Boston, 1863. O. pp. viii + 100 + 229. 26 *figs.*, 1 *plate*, 7 *fold. plates.*

Contents:—Report of the Commissioners.—Report of C. S. Storrow, on European tunnels.—Report of B. H. Latrobe, on the Hoosac tunnel.—Report of J. Laurie, on the T. & G. R.R. and Hoosac tunnel.

—— —*Senate.* Report of B. H. Latrobe, consulting engineer, on the Troy & Greenfield R.R. & Hoosac tunnel. Boston, 1869. O. pp. 29.

In vol. "Troy & Greenleaf R.R. Pamphlets. 1."

—— Report on the Hoosac tunnel and Troy and Greenfield R.R., by the joint standing committee of 1866. Boston, 1867. O. pp. 97. 1 *plate.*

In same.

—— Report from the second joint special committee on railways and canals, to whom was referred the petition of George Grennell and others, for a railroad from Greenfield to the state line in Williamstown, on a route between Boston and Troy. [Boston, April 14th, 1848.] O. pp. 32 + (1).

In same.

—— Piper, J. J. Facts and figures concerning the Hoosac tunnel. Fitchburg, 1866. O. pp. 54.

In same.

Tuscon, Globe and Northern. Prospectus. Tuscon, 1888. O. pp. 30 + (1). 1 *fold. map.*

Valley Railway of Ohio. Prospectus, with a report of a geological survey of its route, and the first report of the president and directors to the stockholders, April 16, 1873, and report of the chief engineer. Cleveland, O., 1873. O. pp. (2) + 5–48. 1 *fold. plate.*

Vermont and Massachusetts. 20th annual report of the directors to the stockholders, Jan., 1864. Boston, 1864. O.

—— Address to the stockholders, adopted by the convention held at Greenfield, Oct. 25, 1845. Greenfield, 1845. O. pp. 16.

—— Brief statement of facts relative to the proposed railroad from Fitchburg to Brattleborough, under charters lately obtained for the same in Massachusetts and Vermont. Boston, 1844. O. pp. 24.

—— Report of the stockholders' committee appointed at the annual meeting, Feb. 14th, 1849. Boston, 1850. O. pp. 22.

Vermont Central. Letter to the shareholders from Josiah Quincy, jr., March, 1852. Boston, 1852. O. pp. 26.

"Rev. Dr. Putnam with the respects of the author."

—— Statement to the stockholders, as read at Cochituate hall, Boston, April 20, 1852, by John W. Seymour. Boston, 1852. O. pp. 22.

Virginia and Tennessee. 6th, 7th annual report of the president and directors to the stockholders, Oct., 1853, 1854. Lynchburg, 1853–54. 2 vols. O

—— Address of the committee appointed by the Christiansburg convention, on the Virginia and Tennessee R.R. Lynchburg, 1849. O. pp. 28.

Cover title.

—— Exhibit; Dec., 1852. N. Y., 1852. O. pp. 9 + (2).

—— Segar, —. Speech on the Virginia and Tennessee R.R. bill [authorizing the State's subscription of three-fifths of the capital stock]; in the House of Delegates, 23rd and 24th Feb., 1849. Richmond, 1849. O. pp. 48.

Virginia Central. 18th–24th, 26th, 27th, 29th –32nd annual report of the president and directors to the stockholders at their annual meeting, Nov., 1853–59, '61, '62, '64–67. Richmond, 1853–67. 13 vols. O.

—— Proceedings of a called meeting of the stockholders. Richmond, 1860. O. pp. 10.

—— Proceedings of the called meeting of the stockholders held in Richmond, May 22, 1867. Richmond, 1867. O. pp. (2) + 5–16.

—— Report on the tariff of toll; by Charles Ellet, jr., consulting engineer. [Washington, Aug., 1858.] Q. pp. 38.

Wabash. Receiver's report of receipts and disbursements, July, 1887 – June, 1888; Jan. – April, 1889. Chicago, [1887–89.] 16 vols. O.

Wabash, St. Louis and Pacific. [Circular to the holders of mortgage bonds of the W. St. L. & P. ry., announcing plan of reorganization and consolidation; signed by F. N. Lawrence, chairman first mortgage bondholders' committee. N. Y., Nov. 21, 1887.] sq. Q. pp. (1).

—— Explanatory statement of the bondholders' agreement. [N. Y., Sept. 1, 1885.] O. pp. 7.

—— Reorganization plan and agreement, Nov. 21, 1887. [N. Y., 1887.] O. pp. 15.

Cover title.

Washington and Georgetown. Annual report of the president and treasurer, for 1875. Washington, 1876. O.

Watertown and Rome. Annual report, made to the State engineer and surveyor of New York, for the year ending Sept. 30, 1859; and financial statement for the stockholders, for the year ending Jan. 1st, 1860. Albany, 1860. O.

—— Report on location and business prospects; by Isaac W. Crane, chief engineer, Sept. 1st, 1848. Watertown, 1848. O. pp. 32.

Western. 1st annual report of the directors; with the act of incorporation, the act in aid of

the W. R.R., and by-laws. June 13, 1836. Boston, 1836. O. pp. 23 + (1).

—— 2nd, 3rd, 5th–8th, 10th–16th, 26th, 28th, 32nd annual report of the directors to the stockholders. Boston, 1837–67. 16 vols. O.

—— 3rd, 4th annual report to legislature, Jan. 1, 1839, 1840. [Boston, 1839–40.] 2 vols. O.

—— A brief statement of facts in relation to the W. R.R. [Boston, Jan. 15, 1838.] O. pp. 8.
In vol. "Western R.R. Pamphlets. 1."

—— A brief statement of facts in relation to the W. R.R. n.t.p. [Boston, Feb., 1839.] O. pp. 7.
In same.

—— Brief statement of facts in relation to W. R.R. [Boston,] Feb. 6, 1841. O. pp. 15.
In same.

—— Proceedings of the W. R.R. Nov. 23, 1837; including an address to the people of Massachusetts, on the application for a loan of the state credit. Boston, 1837. O. pp. 11.
In same.

—— Proceedings, Dec. 12, 1838; including an address to the people of Massachusetts, on the application for an additional loan of the state credit. Boston, 1838. O. pp. 15.
In same.

—— Proceedings of the annual meeting held, by adjournment, in the city of Boston, March 12, 1840; including the report of the committee of investigation appointed by the stockholders. Boston, 1840. O. pp. 56.

—— Proceedings, Jan. 27, 1841; including an address to the people of Massachusetts, on the application for an additional loan of the state credit. Boston, 1841. O. pp. 16.
In vol. "Western R.R. Pamphlets. 1."

—— Proceedings, Jan. 21, 1842; including an address to the people of Massachusetts, on the application for a restoration of the original privileges of the corporation. Boston, 1842. O. pp. 21.

—— Proceedings, with a report of the committee of investigation, 1843. Boston, 1843. O. pp. 124.
In vol. "Western R.R. Pamphlets. 1."

—— Report of the executive committee of the subscribers for procuring a survey of the W. R.R. n.t.p. [July 7th, 1835.] O. pp. 23.

—— Reports of the engineers, made to the directors, in 1836–37. Springfield, 1838. O. pp. 120. 2 *fold. maps.*
In vol. "Western R.R. Pamphlets. 1."

—— Davis, J. *chairman.* Proceedings of a public meeting of the inhabitants of Worcester, August 28, 1847, upon the subject of the passenger depot of the W. R.R. in Worcester. Worcester, [1847.] O. pp. 24.
In same.

—— Henshaw, D. Letters to the *Boston morning post*, on the W. R.R., and the greatly beneficial effects of internal improvement. Boston, 1839. O. pp. 16.
In same.

—— Massachusetts—*General Court.* An act to authorize the extension of the W. R.R. to Boston. n.t.p. [Boston, May 24, 1867.] sq. Q. pp. (2).
In same.

—— —*House of Representatives.* Report to aid the construction of the W. R.R. [Boston, Feb. 3, 1838.] O. pp. 15.
In same.

—— Report on the construction of the W. R.R. [Boston, Feb. 27, 1839.] O. pp. 27.
In same.

—— Report of the joint special committee in relation to the past management and present condition of the W. R.R. [Boston, Jan. 18, 1843.] O. pp. 41.

—— —*Senate.* Memorial and report of the W. R.R. [Boston, Jan. 13, 1838.] O. pp. 16.
In vol. "Western R.R. Pamphlets. 1."

—— Report concerning statistical information in relation to the Western and other rail-roads. [Boston, Feb. 5, 1838.] O. pp. 8.
In same.

—— New York—*Assembly.* Report upon the finances and internal improvements of the State of New York, 1838. Boston, [1839.] O. pp. 65 + 6.
Reprinted for the benefit of the friends of the W. R.R.
In same.

Western and Atlantic. Annual reports of the officers, to Rufus B. Bullock, governor, for the year ending Sept. 30, 1869. Atlanta, Ga., 1870. O.

—— Remarks and statements of the superintendent, on the condition of the road, before the finance committee of the House of Representatives, Sept. 23, 1870. Atlanta, Ga., 1870. O. pp. 14.

Western New York and Pennsylvania. 1st–7th annual report of the Board of directors to the stockholders, for the year ending Sept. 30, 1888, '89; June 30, 1890–94. Buffalo, 1888–94. 7 vols. O.

—— First mortgage: W. N. Y. and P. R.R. to the Mercantile Trust co., dated Dec. 1st, 1887, for $10,000,000. Philadelphia, [1887]. O. pp. 44.
Cover title.

Western Pacific. Laws and documents showing the organization, powers, and rights of the W. P. R.R. of California. San Francisco, 1865. O. pp. 119.

Winona and Southwestern. Prospectus: Winona, Minn., to Council Bluffs and Omaha; the midland short line. [n.p., n.d.] O. pp. 19.

Wisconsin and Superior. Charter; together with land grant to Wisconsin and Michigan, act in relation to R.R. mortgages, etc. Chicago, 1856. O. pp. 40.

Wisconsin Midland. Prospectus and articles of association. Oshkosh, 1873. O. pp. 8.
Cover title.

Worcester and Baldwinville. Engineer's report. [Boston, Mar. 2, 1846.] O. pp. 12.

Worcester and Nashua. Annual report of the directors to the stockholders, July, 1848, '49; Jan. 1850–83. Worcester, Boston, [1848]–83. 36 vols. bd. in 1. D. and O.

—— Act of incorporation and by-laws. Worcester, 1855. T. pp. 30.
In vol. "Worcester and Nashua R.R. Pamphlets. 1."

—— [List of stockholders on the 1st of May, 1865, with the number of shares belonging to each.] n.t.p. [Worcester, 1865.] D. pp. 20.
In same.

—— Report of the committee of investigation, to the stockholders, at an adjourned meeting, March 20, 1856. Worcester, [1856?] O. pp. 14.
In same.

—— Statement of facts concerning the sources of business of the intended rail-road from Worcester, Mass., to Nashua, N. H., and an estimate of its probable cost. Worcester, [1845.] O. pp. (2) + 5–28.
In same.

—— Statement of the directors, made to the stockholders, at a special meeting, May 7, 1850. Worcester, [1850.] O. pp. 18.
In same.

Worcester and Norwich. [Acts of incorporation; and report of the committee of the citizens of Norwich, on the practicability of a rail-road from Norwich to Worcester.] [1833?] O. pp. 3–37 + (3). 2 *fold. maps.*
Lacks title page.

2. *Pacific Railroads.*

(Central Pacific, Southern Pacific, Union Pacific.)

Bancroft, H. H. History of California. San Francisco, 1886–90. 7 vols. O.
Contents relating to railways:—7. 19. Inception of railway routes.—20. Central Pacific system.—21. Southern Pacific system.
141 pages. (pp. 495–635.)

Bell, W. A. New tracks in North America; a journal of travel and adventure whilst engaged in the survey for a southern railroad to the Pacific ocean during 1867–8. Lond., 1869. 2 vols. O. pp. lxv + (1) + 236. 13 *cts.*, 3 *plates*, 7 *colored plates*, 1 *map*; pp. vii + (2) + 322. 9 *cts.*, 3 *charts*, 13 *colored plates.*
Contents:—Introduction.—From the Mississippi river to the Rio Grande del Norte.—The native races of New Mexico and Arizona.—From the Rio Grande del Norte to the Pacific ocean.—The Pacific railways.—Appendices.

Blake, H. T. The Pacific railroads and the government. [New Haven], 1878. O. pp. (28).
"Reprinted from the *New Englander* for Sept., 1878." In vol. "Union & Central Pacific. Pamphlets. 5."

Bonner, J. How are the subsidy bonds to be met? San Francisco, 1890. O. pp. (9).
In same. Extracted from the *Overland monthly*, vol. 15, Mar., 1890.

Bowles, S. Our new West: records of travel between the Mississippi river and the Pacific ocean; including a full description of the Pacific railroad. Hartford, N. Y., Chicago, 1869. O. pp. xx + 23–524. 13 *plates*, 1 *map.*
Contents:—3. The Pacific railroad.

—— The Pacific railroad—open: how to go, what to see; guide for travel to and through western America. Boston, 1869. S. pp. 122.

Building (The) of the iron road. San Francisco, 1869. O. pp. (10).
In vol. "Union & Central Pacific. Pamphlets. 2." Extracted from the *Overland monthly*, vol. 2, May, 1869.

Carver, H. Proposal for a charter to build a railroad from Lake Michigan to the Pacific ocean. Washington, 1847. O. pp. 39.
In vol. "Pacific Railroads. Pamphlets. 1."

Cassidy, G. W. The indebtedness of the Pacific railroads to the government: speech in the House of Representatives, June 18, 1884. Washington, 1884. O. pp. 24.
In vol. "Union & Central Pacific. Pamphlets. 5."

Colburn, R. T. The Pacific railway debts. Philadelphia, 1895. O. pp. (21).
Extracted from *Annals of the American Academy of Political and Social Science*, vol. 5, Mar. 1895.

Colton, *Rev.* **C.** A lecture on the railroad to the Pacific; delivered Aug. 12, 1850, at the Smithsonian Institute, Washington, at the request of numerous members of both houses of Congress. N. Y., 1850. O. pp. 16.
In vol. "Pacific Railroads. Pamphlets. 1."

Croly, D. G. The Pacific railroad a swindle. N. Y., 1868. O. pp. (9).
In vol. "Union & Central Pacific. Pamphlets. 2."

[**Degrand, P. P. F.** Proceedings of the friends of a railroad to San Francisco at their public meeting held at the U.S. Hotel in Boston, Apr. 19, 1849; including an address to the people of the United States, showing that P. P. F. Degrand's plan is the only one, as yet proposed, which will secure promptly and certainly, and by a single act of legislation, the construction of a railroad to California, in the shortest time allowed by its physical obstacles.] n.t.p. [Boston, 1849.] O. pp. 24.
This and following title in vol. "Pacific Railroads. Pamphlets. 1."

—— *Same.* 2nd ed. Boston, 1849. O. pp. 24.
Cover title.

Derby, E. H. The overland route to the Pa-

cific; a report on the condition, capacity and resources of the Union Pacific and Central Pacific railways; Oct., 1869. Boston, 1869. O. pp. 97.
In same.

Dwinell, *Rev.* **I. E.** The higher reaches of the great continental railway: a highway for our God; a sermon preached in the Congregational church, Sacramento, May 9, 1869, on the completion of the overland railway. Sacramento, 1869. O. pp. 20.
Cover title. In vol. "Union & Central Pacific. Pamphlets. 2."

Humphreys, A. A. Letter to Wm. M. Gwin, [chairman Senate committee on Pacific railroad,] in relation to the railroad to the Pacific by the 35th and 32nd parallels. n.t.p. [Washington, April 15, 1858.] O. pp. 8.
Criticism of a pamphlet by "A citizen of Arkansas."

Hunter, R. M. T. Speech on the subject of a railroad to the Pacific, delivered in the Senate, Feb. 19, 1853. n.t.p. [Washington, 1853.] O. pp. 8.

Hurd, F. H. Pacific railroads: speech in the House of Representatives, July 7, 1876. Washington, 1876. O. pp. 11.
In vol. "Union & Central Pacific. Pamphlets. 4."

Jordan, I. M. The Pacific railroads; their history, their relations to the government, their rights and liabilities; the bill to increase the Thurman sinking fund and reach earnings on aided and non-aided roads; objections thereto; the Post substitute; the security of the government debt: speech, in the House of Representatives, June 18, 1884. Washington, 1884. O. pp. 38.
In same, 5.

Judah, T. D. Pacific railroad; report of T. D. Judah, accredited agent Pacific railroad convention, upon his operations in the Atlantic States. San Francisco, 1860. O. pp. 14.
In vol. "Pacific Railroads. Pamphlets. 1."

Krause, W. E. F. America; or, the hope of mankind [poems]. San Francisco, 1869. O. pp. 20.
Pp. 14-20. "The great Pacific railroad, and its immediate effect upon California as a manufacturing state, and upon San Francisco, as the western carrier of the United States commerce to Asia and to Oceanica."
Cover title. In vol. "Union & Central Pacific. Pamphlets. 2."

Lea, P. An outline of the central transit, in a series of six letters to John Hemphill. Galveston, 1859. O. pp. 32.

Littler, D. T. Remarks before the U. S. Senate committee on Pacific railways, May 23, 1888; [on the obligations of the Pacific railroads.] Chicago, 1888. O. pp. 35.
Cover title. In vol. "Union & Central Pacific. Pamphlets. 5."

Mitchell, J. H. The Pacific railroad; speech in the Senate of the United States, March 20, 1878. Washington, 1878. O. pp. 35.
In same.

—— The Pacific railroad indebtedness; speech in the Senate of the United States, Feb. 4 and 8, 1889. [Washington, 1889.] O. pp. 79.
In same.

Nimmo, J., *jr.* The Pacific railway debt; the historic equities of the case; the construction of the original roads and the competition of their rivals; benefits to the country and the Pacific slope. N. Y., 1895. 1½ columns. F.
Extracted from the *New York daily tribune*, Feb. 18, 1895.

Pacific rail-road; a review of the reports of the committees of the Senate and House of Representatives of the last session. New Orleans, 1850. O. pp. 16 + (1).
"From *De Bow's southern review*, for December."

Pacific (The) railroad; congressional proceedings in the 37th, 38th, and 41st Congresses. West Chester, Pa., 1875. O. pp. (1) + iv-viii + (6) + 332.
In vol. "Union & Central Pacific. Pamphlets. 1."

Pacific railroad legislation; 1862–1885. n.t.p. [Boston, 1885 (?)] O. pp. 75.
In same.

People's Pacific. Charter, organization, address of the president, Joseph Perham; with the by-laws of the Board of commissioners. Boston, 1860. O. pp. 24.
Incorporated in Maine to build a railroad "from a point on the Missouri river, through Utah, to San Francisco."

Phelps, J. S. A letter to citizens of Arkansas, in relation to a Pacific railroad [on the 35th parallel]. Cincinnati, 1858. O. pp. 21.
Cover title. In vol. "Pacific Railroads. Pamphlets. 1."

[Plumbe, J.] Memorial against Asa Whitney's railroad scheme: to the Senate and House of Representatives of the United States. n.t.p. [Washington? 1851?] O. pp. 48.
In same.

[Poor, H. V.] The Pacific railroads and the relations existing between them and the government of the United States. N. Y., 1879. O. pp. 16.

Post, G. A. Pacific railroads; speech in the House of Representatives, June 18, 1884. n.t.p. [Washington, 1884.] O. pp. 15.
In vol. "Union & Central Pacific. Pamphlets. 5."

Prendergast, F. E. Transcontinental railways. N. Y., 1883. O. pp. (9). 1 *map.*
Extracted from *Harper's new monthly magazine*, vol. 67, Nov., 1883.

Rice, W. W. Pacific Railroad Commission; speech in the House of Representatives, June 8th, 1878. Washington, 1878. O. pp. 33.

Sargent, A. A. Speech on the Pacific railroad as a military necessity; in the House of Representatives, Jan. 31, 1862. Washington, 1862. O. pp. 16.
Cover title. In vol. "Union & Central Pacific. Pamphlets. 1."

Scenery of the Pacific railways and Colorado. N. Y., [1878.] O. pp. 88. 71 *figs.*, 1 *map.*

Seymour, S. Incidents of a trip through the Great Platte valley, to the Rocky mountains and Laramie plains, in the fall of 1866; with a synoptical statement of the various Pacific railroads, and an account of the great Union Pacific railroad excursion to the 100th meridian of longitude. N. Y., 1867. D. pp. 129.

—— *Same.* 2nd ed. N.Y., 1867. D. pp. 130. *frontisp. port.*

Schlagintweit, R. von. Die Santa Fé-und Südpacificbahn in Nordamerika. Köln, 1884. O. pp. xvi + 400. 79 *cts.*, 14 *plates*, 2 *maps*, 7 *fold. plates*, 2 *fold. maps.*

Smith, G. Keep government within its limits; speech on the Pacific railroad, in the House of Representatives, May 30, 1854. Washington, 1854. O. pp. 15.
In vol. "Pacific Railroads. Pamphlets. 1."

Stewart, W. M. Indebtedness of Pacific railroads; speech in the Senate of the United States, Feb. 9, 1889. Washington, 1889. O. pp. 24.
In vol. "Union & Central Pacific. Pamphlets. 5."

United States — *Attorney General.* Letter transmitting [to the Senate] facts relative to the failure of the Central and Union Pacific railroad companies to comply with the requirements of the act of May 7, 1878. Ordered printed March 13, 1884. n.t.p. [Washington, 1884.] O. pp. 33.
In same.

—— — *Commissioner of Railroads.* Letter relative to the indebtedness to the government of the Union and Central Pacific railroads. Ordered printed March 31, 1884. n.t.p. [Washington, 1884.] O. pp. 7.
In same.

—— Proposed settlement of Pacific railroad debts; extracts from the annual report of H. A. Taylor, Commissioner of railroads, for 1892. Washington, 1892. O. pp. 23.

—— — *Congress.* Pacific railroad acts [1862, '63, '64, '65, '66.] t.p.w. O. pp. 38.

—— Pacific rail-road, 1864: an act to aid in the construction of a rail-road and telegraph line from the Missouri river to the Pacific ocean, and to secure to the government the use of the same for postal, military, and other purposes, approved July 1, 1862; and an act amendatory thereof, approved July 2, 1864. [N.Y., printed.] n.d. O. pp. 35.
Cover title. In vol. "Union & Central Pacific. Pamphlets. 1."

—— Report of discussion between the House and Senate committees on Pacific railroads and C. P. Huntington, in relation to a settlement between the government and Central and Union Pacific railroad companies; Jan. 23 and 24, 1890. n.t.p. [N. Y., printed, 1890?] O. pp. 27.
In same, 5.

—— Joint resolution authorizing an investigation of the books, accounts, and methods of Pacific railroads which have received aid from the United States. Read, Jan. 18, 1887; reported with an amendment, Feb. 4, 1887. [Washington, 1887.] Q. pp. 14.
In same, 3.

—— — *Department of the Interior.* Letter of the Secretary of the Interior, [dated Jan. 6, 1869,] communicating, in compliance with a resolution of the Senate, the annual reports of the several Pacific railroad companies. n.t.p. [Washington, 1869.] O. pp. 47.
In same, 4.

—— Report of Col. James H. Simpson, on the Union Pacific railroad and branches, Central Pacific railroad of California, Northern Pacific railroad, wagon roads in the territories of Idaho, Montana, Dakota, and Nebraska, and the Washington aqueduct; made Nov. 23, 1865. Washington, 1865. O. pp. (2) + 161. 2 *fold. maps.*
In same, 1.

—— — *Department of the Treasury.* Letter from the Secretary of the Treasury concerning the amount of the indebtedness of the subsidized Pacific railroad companies, to the United States, and the effect upon said indebtedness of the passage of House bill no. 8318. Ordered printed, Jan. 24, 1887. n.t.p. [Washington, 1887.] O. pp. 4.
In same, 5.

—— — *Department of War.* Letter transmitting [to the House of Representatives] a report on the survey of the Union and Central Pacific railways. Ordered printed Feb. 1, 1877. n.t.p. [Washington, 1877.] O. pp. (2) + 61.

—— Report on the several Pacific railroad explorations. Washington, 1855. O. pp. 43.
In vol. "Pacific Railroads. Pamphlets. 1."

—— Reports of explorations and surveys to ascertain the most practicable and economical route for a railroad from the Mississippi river to the Pacific ocean; made in 1853–4–56. Washington, 1855–61. 12 vols. in 13. Q. pp. (800); pp. (600). 3 *figs.*, 37 *plates*, 1 *fold. profile*, 1 *fold. map;* pp. (577). 71 *figs.*, 30 *plates*, 2 *fold. profiles*, 1 *fold. map;* pp. (513). 59 *plates*, 1 *fold. profile;* pp. (485). 99 *figs.*, 66 *plates*, 3 *maps*, 7 *fold. profiles*, 1 *fold. map;* pp. (508). 41 *figs.*, 50 *plates;* pp. (451). 51 *plates*, 2 *fold. maps;* pp. (805). 36 *figs.*, 43 *plates;* pp. (1061). 122 *plates;* pp. (665). 122 *plates;* pp. (119). 8 *plates*, 4 *maps*, 5 *fold. plates*, 9 *fold. profiles*, 23 *fold. maps;* pp. (399). 69 *plates*, 1 *fold. plate*, 1 *fold. profile*, 2 *fold. maps;* pp. (484). 53 *plates.*

Contents:—1. Report of the Secretary of War [Jefferson Davis] on the several railroad explorations.—**Humphreys,** *Capt.* **A. A.,** *and* **Warren,** *Lieut.* **G. K.** An examination of the reports of explorations for railroad routes.—**Jesup,** *Gen.* **T. S.** Report upon the cost of transporting troops and supplies to California, Oregon, New Mexico, etc.—**Stevens,** *Gov.* **I. I.** Report of explorations for a route near the 47th and 49th parallels, from St. Paul to Puget Sound.

2. **Gunnison,** *Capt.* **J. W.** Report of explorations near the 38th and 39th parallels, from the mouth of the Kansas river, Mo., to the Sevier lake, in the Great Basin. —**Beckwith,** *Lieut.* **E. G.** Report of explorations on the line of the 41st parallel.—**Torrey, J.** *and* **Gray, A.** Report on the botany of the expedition [under Beckwith and Gunnison.]—**Lander, F. W.** Synopsis of a report of the reconnoissance, from Puget Sound via South Pass to the Mississippi river.—**Pope,** *Capt.* **J.** Report of exploration near the 32nd parallel, from the Red river to the Rio Grande.—**Torrey, J.** *and* **Gray, A.** Report on the botany of the expedition [under Pope.]—**Blake, W. P.** Report on the geology of the route near the 32nd parallel. —**Parke,** *Lieut.* **J. G.** Report of explorations near the 32nd parallel, lying between Dona Ana, on the Rio Grande, and Pimas villages, on the Gila.—**Emory,** *Col.* **W. H.** Extract from report of a military reconnoissance, made in 1846 and 1847, [describing the route from the junction of the San Pedro with the Gila, to the junction of the latter with the Colorado of the west.]

3, 4. **Whipple, A. W.** Extracts from the (preliminary) report upon the route near the 35th parallel, with an explanatory note by Capt. A. A. Humphreys.—**Whipple, A. W.** *and* **Ives, J. C.** Report of explorations for a railway route near the 35th parallel, from the Mississippi river to the Pacific ocean:—1. Itinerary.—2. Topographical features and character of the country.—3. **Whipple, A. W.,** *and others.* Indian tribes.—4. **Blake, W. P.** *and* **Marcou, J.** Geology of the route.—5. **Bigelow, J. M.** *and others.* Botany of the expedition.—6. **Kennerly, C. B. R.** *and others.* Zoology of the expedition.

5. **Williamson, R. S.** Report of explorations in California for railroad routes to connect with the routes near the 35th and 32nd parallels:—Introduction; instructions from the War Department.—1. Report.—2. **Blake, W. P.** Geological report.—3. **Durand, E.** *and* **Hilgard, T. C.** Botanical report.—4. **Baird, S. F.** *and others.* Zoological report.

6. **Abbot, H. L.** Report upon explorations for a railroad route from the Sacramento valley to the Columbia river, made by Lieut. R. S. Williamson, assisted by Lieut. H. L. Abbot:—Introduction; instructions from the War Department.—1. General report.—2. **Newberry, J. S.** *and others.* Geological report.—3. **Newberry, J. S.** Botanical report.—4. **Girard, C.** *and* **Newberry, J. S.** Zoological report.

7. **Parke, J. G.** *and* **Campbell, A. H.** Report of explorations for railroad routes from San Francisco bay to Los Angeles, west of the Coast Range, and from the Pimas villages on the Gila to the Rio Grande near the 32d parallel:—Introduction; instructions from the War Department.—1. General report.—2. **Antisell, T.** Geological report.—3. **Torrey, J.** Botanical report.

8. General report upon the zoology of the several Pacific railroad routes.—1. **Baird, S. F.** Mammals.

9. *Same:*—2. **Baird, S. F.** *and others.* Birds.

10. *Same:*—3. **Baird, S. F.** Reptiles.—4. **Girard, C.** Fishes.—**Beckwith,** *Lieut.* **E. G.** Report upon explorations for a railroad route, near the 38th and 39th parallels, by Capt. J. W. Gunnison, and near the 41st parallel, by Lieut. E. G. Beckwith:—**Baird, S. F.** *and others.* Zoological report [including mammals, birds, reptiles, fishes, and insects].—**Whipple, A. W.** *and* **Ives, J. C.** Report of explorations for a railway route (near the 35th parallel) from the Mississippi river to the Pacific ocean:—**Kennerly, C. B. R.** *and others.* Zoological report [including field notes and explanations, mammals, birds, reptiles and fishes].—**Parke, J. C.** Report of explorations for a railroad route near the 32d parallel, lying between Dona Ana on the Rio Grande, and Pimas villages on the Gila:—**Heermann, A. L.** *and* **Hallowell, E.** Zoological report [birds, reptiles.]—**Williamson, R. S.** Report of explorations in California for railroad routes to connect with the routes near the 35th and 32nd parallels:—**Hallowell, E.** *and others.* Zoological report [including introductory letter, reptiles, birds, mammals and fishes].—**Abbot,** *Lieut.* **H. L.** Report upon explorations for a railroad route from the Sacramento valley to the Columbia river, made by Lieut. R. S. Williamson, assisted by Lieut. H. L. Abbot:—**Girard, C.** *and others.* Zoological report.

11. **Humphreys,** *Lieut.* **A. A.** Letter to the Secretary of War, transmitting Lieut. Warren's memoir.—**Warren,** *Lieut.* **G. K.** Memoir to accompany map of the territory of the United States from the Mississippi river to the Pacific ocean, giving a brief account of each of the exploring expeditions since A. D. 1800, with a detailed description of the method adopted in compiling the general map.—**Topographical** maps, profiles, and sketches, to illustrate the various reports of surveys for railroad routes from the Mississippi river to the Pacific ocean.

12. **Stevens, I. I.** Narrative and final report of explorations for a route for a Pacific railroad near the 47th and 49th parallels, from St. Paul to Puget Sound.—Introduction.—1. General report.—2. **Cooper, J. G.** *and* **Gray, A.** Botanical report.—3. **Leconte, J. L.** *and others.* Zoological report.

—— —*House of Representatives.* A bill to amend an act entitled "An act to amend an act entitled 'An act to aid in the construction of a railroad and telegraph line from the Missouri river to the Pacific ocean, and to secure to the government the use of the same for postal, military, and other purposes,' approved July 1, 1862," approved July 2, 1864. Ordered printed Feb. 25, 1884. [Washington, 1884.] Q. pp. 4.

In vol. "Union & Central Pacific. Pamphlets 1."

—— A bill to compel the payment by certain railroad and railway companies of the cost of surveying, selecting, and conveying lands granted to them by the United States, and requiring the Secretary of the Interior to issue patents conveying title to all lands granted to railroads, which have been legally earned by virtue of the completion of their roads as provided by law. Ordered printed Jan. 21, 1884. [Washington, 1884.] Q. pp. 4.

In same.

—— Papers submitted to the House committee on the Pacific railroad from the Treasury and Interior Departments, and ordered by that committee to be printed, in the matter of the investigation provided for in the resolution of the House relative to issue of bonds to the C. P. R.R. [Washington,] 1869. O. pp. 104 + (2).

Correspondence of the C. P. & U. P. with the Departments, relative to the bonds issued to the C. P. on the road between Monument Point and Echo Summit.

In same, 2.

—— The policy of extending government aid to additional railroads to the Pacific, by guaranteeing interest on their bonds; report of the majority of Senate committee on Pacific railroad, Feb. 19, 1869. Washington, 1869. O. pp. 31.

Cover title. In same, 2.

—— [Report of the Committee on the judiciary on "what legislation, if any, may be necessary to secure indemnity to the United States for advances of interest paid and to be paid by the Treasury Department on account of subsidy-bonds issued to the several so-called Pacific railroad companies, and to secure indemnity against liability to pay the principal of such bonds, either by requiring the creation of sinking funds or otherwise." Ordered printed March 13, 1876.] n.t.p. [Washington, 1876.] O. pp. 29.

In same, 4.

—— [*Same.* Report of the minority of the Committee]. Ordered printed May 24, 1876. n.t.p. [Washington, 1876.] O. pp. 15.
In same.

—— Report on the subject of a sinking fund for the several Pacific railroad companies; together with the acts of Congress, decisions of courts, and documents relating to said railroad companies. [Ordered printed April 25, 1876.] Washington, 1876. O. pp. (1) + 306.
In same.

—— [Report, to accompany bill H. R. 6771, of the Committee on Pacific railroads, relative to a railroad and telegraph line from the Missouri river to the Pacific ocean. Ordered printed April 26, 1884. n.t.p. [Washington, 1884.] O. pp. 9.
In same, 5.

—— [Report to accompany bill H. R. 6771, of the Committee on Pacific railroads: views of the minority. Ordered printed May 13, 1884.] n.t.p. [Washington, 1884.] O. pp. 8.
In same.

—— [*Same.* Another ed.] n.t.p. [Washington, 1884?] O. pp. 8.

—— [Report to accompany bill H. R. 8318, of the Committee on Pacific railroads. Ordered printed April 29, 1886. n.t.p. [Washington, 1886.] O. pp. 11.
In same.

—— — *Pacific Railway Commission.* Report [with message of the President transmitting the same] of the Commission and of the minority commissioner, appointed under the act of Congress approved Mar. 3, 1887, entitled "An act authorizing an investigation of the books, accounts, and methods of railroads which have received aid from the United States, and for other purposes." R. E. Pattison, E. E. Anderson, D. T. Littler, commissioners. Washington, 1887. O. pp. 217.

—— Testimony taken by the Commission. Washington, 1887–88. 9 vols. O. pp. 5561. 2 *fold maps.*
Vol. 9: Alphabetical, analytical, and topical index of testimony, reports of accountants and engineer, and of the commissioners of the United States Pacific railway commission; prepared by Edward C. Manners.

—— — *Senate.* An act to amend an act entitled, "An act to aid in the construction of a railroad and telegraph line from the Missouri river to the Pacific ocean, and to secure to the government the use of the same for postal, military and other purposes," approved July 1, 1862, also to amend an act approved July 2, 1864, and also an act approved May 7th, 1878, both in amendment of said first-mentioned act. Read, [in the Senate] June 21, 1884. [Washington, 1884.] Q. pp. 15.
In vol. "Union & Central Pacific. Pamphlets. 1."

—— — *Same.* Reported [in the Senate] with amendments, Jan. 28, 1885. [Washington, 1885.] Q. pp. 26.
In same.

—— — *Same;* [with report from the Committee on the Judiciary.] [Washington, 1885.] O. pp. 18.
In same.

—— — *Same.* Reported amendment amended [in the Senate] and bill ordered reprinted, Feb. 2, 1885. [Washington, 1885.] Q. pp. 27.
In same.

—— — *Same.* Amendment intended to be proposed [in the Senate] by Mr. Sherman. Ordered printed, Feb. 23, 1885. [Washington, 1885.] Q. pp. 2.
In same.

—— An act to amend an act entitled "An act to amend an act entitled 'An act to aid in the construction of a railroad and telegraph line from the Missouri river to the Pacific ocean, and to secure to the government the use of the same for postal, military, and other purposes,' approved July 1, 1862," approved July 2, 1864. Read, [in the Senate] June 18, 1884. [Washington, 1884.] Q. pp. 4.
In same.

—— A bill to amend the act entitled "An act to aid in the construction of a railroad and telegraph line from the Missouri river to the Pacific ocean, and to secure to the government the use of the same for postal, military and other purposes," approved July 1, 1862, and the several acts amendatory thereof and supplementary thereto. Ordered printed, Mar. 6, 1876. [Washington, 1876.] Q. pp. 11.
In vol. "Union & Central Pacific. Pamphlets. 3."

—— A bill to amend an act entitled "An act to aid in the construction of a railroad and telegraph line from the Missouri river to the Pacific ocean, and to secure to the government the use of the same for postal, military, and other purposes," approved July 1, 1862; also to amend an act approved July 2, 1864, and also an act approved May 7, 1868, both in amendment of said first-mentioned act; to provide for a settlement of the claims growing out of the issue of bonds to aid in the construction of said railroads, and to secure to the United States all indebtedness of the companies therein mentioned. Read Jan. 21, 1881. [Washington, 1881.] Q. pp. 7.
In same.

—— A bill to create a sinking fund for the liquidation of the government bonds advanced to the Central and Western Pacific railroad companies. Ordered printed, Apr. 3, 1876; reported, with amendments, May 26, 1876. [Washington, 1876]. Q. pp. 9.
In same.

—— A bill to create a sinking fund for the liquidation of the government bonds advanced to

the C. P. R.R. of California and the W. P. R.R., and to the U. P. R.R. under and in pursuance of the act of Congress entitled "An act to aid in the construction of a railroad and telegraph line from the Missouri river to the Pacific ocean, and to secure to the government the use of the same for postal, military, and other purposes," approved July 1, 1862, and the acts amending the same or supplemental thereto, and for the settlement of the claims of the government on account of said bonds. [Washington? 1876?] nar. O. pp. 6.
In same.

—— *Same.* Ordered printed Jan. 12, 1877. [Washington, 1877.] Q. pp. 6
In same.

—— *Same.* Reported with amendments, Jan. 18, 1877. [Washington, 1877.] Q. pp. 7.
In same.

—— [Report of the Committee on railroads, to whom was referred Senate bill no. 687; for settlement with the Union and Central Pacific railroads.] n.t.p. [Washington, 1876.] O. pp. 14.
In same, 4.

Whitney, A. A project for a railroad to the Pacific; with reports of committees of Congress, resolutions of State legislatures, with other facts relating thereto. N. Y., 1849. O. pp. viii + 112. 2 *fold. maps.*
In vol. "Pacific Railroads. Pamphlets. 1."

Central Pacific. Annual reports to the Secretary of state [of California], from 1862 to 1868. Sacramento, 1870. O. pp. 13.

—— Annual report of the Board of directors to the stockholders, for 1872–86. Sacramento, San Francisco, New York, 1873-87. 15 vols. O.

—— Report of the directors to the stockholders, for 1887. [San Francisco, 1888.] sq. Q.

—— Answer of the Central Pacific, submitted by Leland Stanford, president, at San Francisco, July 28th and 29th, 1887, to the communication of the United States Pacific Railway Commission, dated, New York, May 12th, 1887. San Francisco, 1887. O. pp. 277.
In vol. "Central Pacific. Pamphlets. 4."

—— Argument of Wheeler H. Peckham before the House committee on Pacific railroads, Jan. 28, 1888, in behalf of certain stockholders of the C. P. R.R. [N. Y., 1888?] O. pp. 20.
Cover title. In same.

—— By-laws of the C. P. R.R. of California. n.t.p. O. pp. 4.
In same, 2.

—— By-laws; adopted Aug. 22d, 1870. n.p., [1872]. S. pp. 5.
Cover title.

—— By-laws as adopted by Board of directors, July 6, 1876; by stockholders, July 11, 1875; amended as to section 5, Oct. 3, 1877. San Francisco (?) 1881 (?) F., folded to nar. O. pp. 12.
Mimeograph. In vol. "Central Pacific. Pamphlets. 2."

—— Central Pacific R.R. in account with the United States: the Thurman Act a final settlement; review of the contract; by G. L. Lansing. [San Francisco, 1889?] O. pp. 28.
In same, 4.

—— *Same.* n.t.p. F. pp. 30.
Type-written copy signed by Mr. Lansing.

—— The Central Pacific R.R. in equitable account with the United States, growing out of the issue of subsidy bonds in aid of construction; a review of the testimony and exhibits presented before the Pacific Railway Commission; by Roscoe Conkling and William D. Shipman, of counsel. N. Y., 1887. O. pp. 134.
In vol. "Central Pacific. Pamphlets. 3."

—— The Central Pacific R.R.; its relations with the government; it has performed all its obligations; argument of Creed Haymond, made to a Select committee of the U. S. Senate, Mar. 17 and 26 and April 7, 1888. Washington, [1886?] O. pp. 181.
Cover title. In same, 3.

—— [Circular] to the bondholders of the C. P. R.R., Jan. 1, 1870; Fisk & Hatch. N. Y., 1870. D. pp. (1) + 15.
In same, 1.

—— The general railroad laws of California, the Pacific railroad act of Congress, and the by-laws of the C. P. R.R. of California, together with city ordinance of Sacramento and act donating swamp land. Sacramento, 1862. O. pp. 104.
In same.

—— In the matter of the payment for surveys and the taxation of granted lands; Charles H. Tweed, counsel. n.p., [1885?] O. pp. 11.
Cover title.

—— *Same*; letter to P. B. Plumb, chairman Committee on public lands, [from C. P. Huntington.] n.t.p. [N. Y., Dec. 31st, 1885.] O. pp. 7.
Cover title.

—— Lands of the C. P. R.R. of California. Sacramento, 1868. O. pp. 18.
Cover title. In vol. "Central Pacific. Pamphlets. 1."

—— The lands of the C. P. R.R., with general information on the resources of the country through which the railroad takes its way; June 1, 1880. San Francisco, 1880. O. pp. 40.
In same, 2.

—— [Letter of C. P. Huntington to Hon. Philetus Sawyer, chairman of the committee on the Pacific railroad, House of Representatives, Washington, D. C.] n.t.p. [N. Y., 1874.] O. pp. 28.
In same, 3.

—— Mortgage, dated Oct. 1, 1886. 50-year

bonds, 6 per cent. n.t.p. [San Francisco, 1886?] O. pp. 30.
In same, 2.

—— Opinion upon the question: whether the C. P. R.R. is liable to pay the interest upon the bonds of the United States issued to it under the Pacific railroad acts of Congress of 1862, 1864, and 1865, before the maturity of said bonds, except by way of services rendered to the government and five per cent. of the net earnings of the road after it shall have been completed? by S. W. Sanderson, counsel, Sacramento, 1870. Sacramento, 1870. O. pp. 12.
Cover title. In same, 3.

—— The Pacific railroad; a defense against its enemies, with report of the supervisors of Placer county, and report of Mr. Montanya, made to the supervisors of the city and county of San Francisco, Dec., 1864. [San Francisco,] 1864. O. pp. 35.
A reply to the pamphlet "The Great Dutch Flat Swindle." In same, 1.

—— The Pacific rail road companies; their relations to the government growing out of advances of bonds in aid of construction: letter of the vice-president [C. P. Huntington], C. P. R.R. to the chairman Pacific railroad committee, House of Representatives. [N. Y., 1886.] O. pp. 25.
In same, 5.

—— Pacific railroads: statement of Leland Stanford made before the Senate select committee on Pacific railroads, Mar. 17, 1888. n.p., n.d. O. pp. 28.
Cover title. In same.

—— Railroad communication with the Pacific; with an account of the C. P. R.R. of California, the character of the work, its progress, resources, earnings and future prospects, and the advantages of its first mortgage bonds; Oct., 1867. [Fisk & Hatch.] N. Y., 1867. O. pp. (2) + 32. 1 *fold. map.*
In same, 1.

—— Railroad lands; not affected by discoveries of minerals subsequent to definite location of line of road; an interesting and important decision by the United States Circuit court. n.t.p. [1890.] O. pp. 11.
In same, 2.

—— Relations between the C. P. R.R. and the United States government: summary of facts; [by G. L. Lansing.] San Francisco, 1889. O. pp. (2) + 5–62.

—— *Same.* [Another ed.] San Francisco, 1889. O. pp. (2) + 5–70.
In same, 4; and copy separately bound.

—— Report of the chief engineer on the preliminary survey and cost of construction of the C. P. R.R. of California, across the Sierra Nevada mountains from Sacramento to the eastern boundary of California. Sacramento, 1861. O. pp. (2) + 5–36. 2 *fold. maps.*
In vol. "Central Pacific, 1861-65."

—— Report of the chief engineer on his operations in the Atlantic states. Sacramento, 1862. O. pp. 30.
In same.

—— Report of the chief engineer on the preliminary survey, cost of construction, and estimated revenue, across the Sierra Nevada mountains from Sacramento to the eastern boundary of California; Oct. 22, 1862. Sacramento, 1862. O. pp. (2) + 5–56.
In same.

—— Report of the chief engineer upon recent surveys, progress of construction, and an approximate estimate of cost of first division of fifty miles of the C. P. R.R. of California; July 1, 1863. Sacramento, 1863. O. pp. 26.
In same.

—— Report of the chief engineer upon recent surveys, progress of construction, and an approximate estimate of receipts of the C. P. R.R. of California; Oct. 8, 1864. [Sacramento, 1864.] O. pp. 32.
In same.

—— Report of the chief engineer upon recent surveys, progress of construction, and estimated revenue of the C. P. R.R. of California; Dec. 1864. [Sacramento, 1864?] O. pp. (2) + 5–32.
In same.

—— Reports of the president and chief engineer upon recent surveys, progress of construction, and estimated revenue of the C. P. R.R. of California; Dec. 1865. [Sacramento, 1865?] O. pp. (2) + 5–22 + 8.
In same.

—— Resolutions, &c., of the C. P. R.R., providing for sinking fund for payment of government bonds and interest thereon at maturity. San Francisco, 1878. O. pp. 36.
In vol. "Central Pacific. Pamphlets. 3."

—— Souvenir time schedule: Knights Templar conclave, San Francisco, Aug., 1883. [San Francisco, 1883.] nar. S. pp. (24).

—— Statement made to Senate committee of the Nevada legislature, Jan. 14, 1865, [relative to the location surveys over the Sierra Nevadas, etc.] n.p., 1865. O. pp. 15.
Cover title. In vol. "Central Pacific. Pamphlets. 1."

—— Statement made to the President of the United States, and Secretary of the Interior, of the progress of the work, Oct. 10, 1865. Sacramento, 1865. O. pp. 12.
In same.

—— Supplementary statement by Leland Stanford, president, to United States Pacific Railway Commission; presented at the meeting of the Commission held in San Francisco, Aug. 2, 1887. n.t.p. [1887?] O. pp. 5.
In same, 4.

—— Will Congress preserve the national faith in its dealings with the Pacific railroad companies? Extracts from the debates in Congress on the passage of the acts to secure the construction of a railroad to the Pacific; with some suggestions upon the question whether the United States issued their bonds to the Pacific railway companies to promote and protect the national interests, and upon an adequate consideration, or, as an act of bounty. Prepared by L. E. Chittenden, in behalf of the C. P. R.R., and presented to the Judiciary committee of the Senate of the United States. Washington, 1871. O. pp. 47.
Cover title. In same.

—— Appeal to the California delegation in Congress, upon the Goat Island grant to the C. P. R.R. San Francisco, 1872. O. pp. 59. 1 *fold. map.*

—— Bassett, J. M. Dear old pard: letter to C. P. Huntington. San Francisco, 1895. 2 columns. F[6].
Extracted from the *San Francisco daily report*, Apr. 20, 1895.

—— Bowles, S. Across the continent: a summer's journey to the Rocky mountains, the Mormons, and the Pacific States, with Speaker Colfax. Springfield, Mass., N. Y., 1865. D. pp. xix + 438.
Contents:—Letter 24. The great theme: the Pacific railway.

—— Colton letters (The); declaration of Huntington that congressmen are for sale. [San Francisco, 1894?] O. pp. 12.
Cover title.

—— [Graham, R. S.] Central Pacific R.R. co.; facts regarding its past and present management; by a stockholder and former employee. [San Francisco, 1889.] O. pp. 40.
In vol. "Central Pacific Pamphlets, 2."

—— Great (The) Dutch Flat swindle; the city of San Francisco demands justice!! The matter in controversy, and the present state of the question; an address to the Board of supervisors, officers and people of San Francisco. [San Francisco, 1864.] O. pp. 128.
Cover title. In same, 1.

—— Haskell, D. H. Speech on the Pacific railroad resolutions before the Nevada legislature. n.t.p. Carson City? 1865? O. pp. 16.
In same.

—— Information concerning the terminus of the railroad system of the Pacific coast. Oakland, 1871. O. pp. (2) + 46. 2 *fold. maps.*

—— [Moore, J. H.] How members of congress are bribed; an open letter; a protest and a petition; from a citizen of California to the United States Congress. [San Francisco, 1894(?)] nar. O. pp. 22.
Cover title.

—— Nordhoff, C. California: for health, pleasure, and residence; a book for travellers and settlers. N. Y., 1872. O. pp. (3) + 11–255. 53 *cts.*, 1 *plate*, 3 *maps.*
Contents:—3. The Central Pacific railroad.—19. The Chinese as railroad builders.

—— Old Block, *pseud.* The Central Pacific railroad, or, '49 and '69. San Francisco, 1868. O. pp. 23 + (1).
In vol. "Central Pacific. Pamphlets. 1."

—— Sumner, C. A. [Letter to William L. Wilson, M. C., on trusts, the C. P. R.R., etc.] n.t.p. [Washington, 1895.] nar. F. p. (1).

—— — *and others.* A memorial [to the Senate and House of Representatives of the United States] against refunding the claim of the United States upon the C. P. R.R. for $77,000,000. n.t.p. [San Francisco, 1894?] O. pp. 14.

—— — *Same.* [Another ed.] n.t.p. [San Francisco, 1894?] O. pp. 13.

—— — Refunding is needless and useless. n.t.p. [San Francisco, 1894.] O. pp. (2).

—— Sutro, A. Colorado earnestly protests; a timely warning; [appeal to the citizens of California, Jan. 14, 1895.] n.t.p. [San Francisco, 1895.] nar. Q. p. (1).

—— — Copy of telegram to President Cleveland; June 29, 1894. n.t.p. [San Francisco, 1894.] O. p. 1.

—— Sutro's war cry; the octopus must be destroyed! Cullings from Sutro's speeches. n.t.p. [San Francisco, 1895(?)] nar. F. p. (1).

—— $3,000,000: this amount to be spent on Congress; one hundred and fifty votes wanted at $20,000 apiece; a startling report from the national capital. n.t.p. [Boise City (?) 1894.] O. p. (1.)
"From *Idaho daily times*, Dec. 27, 1894."

—— United States—*Department of War.* Army transportation; estimate of appropriation to pay claims of C. P. R.R. for the fiscal years 1887 and 1886 and prior years. Ordered printed June 12, 1886. n.t.p. [Washington, 1886]. O. pp. 19.
In vol. "Central Pacific. Pamphlets. 2."

—— — *Senate.* [Report as to the C. P. R.R. of the select committee, appointed under resolution of the Senate of Jan. 24, 1888, to which was referred the President's message transmitting the Report of the Pacific Railway Commission. Ordered printed Feb. 17, 1890.] n.t.p. [Washington, 1890.] O. pp. (54).
In same, 4.

—— Winton, N. W. Pacific railroad: speech in the Nevada Senate, Feb. 27, 1865. n.t.p. [Carson City? 1865?] O. pp. 16.
In same, 1.

Southern Pacific. Annual report of the Board

of directors of the S. P. co., to the stockholders, 1885–87. San Francisco, 1886-88. 3 vols. O.
The library has also advance sheets of the 1st annual report of the president and directors to the stockholders, dated New York, Mar 31, 1885; Leland Stanford, president.

—— Annual report of the S. P. co., its proprietary companies and leased lines, for 1888–94. [San Francisco, New York, 1889–95.] 7 vols. sq.Q.

—— Annual report of the Board of directors of the S. P. R.R. to the stockholders, for the year ending June 30, 1873–77; for the eighteen months ending Dec. 31, 1878; for 1879–80. N. Y., San Francisco, 1874–81. 7 vols. O.
Reports for 1876 and 1877 combined.

—— 1st annual report of the Board of directors of the S. P. R.R. (of Arizona), for the year ending June 30th, 1882. N. Y., [1882.] O.

—— Annual report of the Board of directors of the S. P. R.R. (of California), to the stockholders, for 1881–87. San Francisco, 1882-88. 7 vols. O.

—— 1st annual report of the Board of directors of the S. P. R.R. chartered by the State of Texas. N. Y., 1856. O.

—— Articles of association, incorporation, amalgamation and consolidation of the S. P. R.R., the San Jose and Almaden R.R., the Pajaro and Santa Cruz R.R., the Monterey R.R., the Monterey Extension R.R., the Southern Pacific Branch ry., the San Pablo and Tulare R.R., the San Pablo and Tulare Extension R.R., the San Ramon Valley R.R., the Stockton and Copperopolis R.R., the Stockton and Tulare R.R., the San Joaquin Valley and Yosemite R.R., the Los Angeles and San Diego R.R., the Los Angeles and Independence R.R., the Long Beach, Whittier and Los Angeles County R.R., the Long Beach R.R., the Southern Pacific R.R. Extension co., and the Ramona and San Bernardino R.R. [San Francisco, 1888.] F. pp. 48.

—— Bentley's hand-book of the Pacific coast; containing a complete list of the prominent seaside and mountain resorts, mineral springs, lakes, [etc.], giving the names of railroads, location of depots, [etc.]; by Wm. R. Bentley. Oakland, 1884. O. pp. 143. *illus.*

—— *Same.* Oakland, 1885. O. pp. 138. *illus.*
"Compliments of Passenger department, S. P. co."

—— "By semi-tropic seas": Santa Barbara and surroundings; by E. McD. Johnstone. [Buffalo, N. Y., printed, 1888.] sq. O. pp. (48). 46 *cts.*

—— California: all about the Golden State. Oakland, [1888]. O. pp. 39 + (1). 12 *cts.*
With time table folder of S. P. co., Aug., 1888.

—— California; its attractions for the invalid, tourist, capitalist, and homeseeker, with general information on the lands of the S. P. R.R. co.; Jerome Madden, land agent. San Francisco, 1890. Q. pp. 47 + (1). 14 *cts.*

—— California: [the Golden Gate special, solid vestibule train.] n.p., [1889.] O. pp. (16). *colored illus.*

—— [Circular announcing the appointment of A. C. Hutchinson, general manager of the Atlantic system, S. P. co.] n.t.p. [New Orleans, Mar. 1st, 1885.] O. pp. (1).

—— [Circular letter from C. P. Huntington, S. P. R.R. of Arizona, to Speyer & Co., New York.] n.t.p. [N. Y., June 1st, 1883.] O. pp. 3.

—— [Circular notice of the president S. P. co. giving brief statement of the organization for the administration of the general business of the company.] n.t.p. [San Francisco, Feb. 27th, 1885.] Q. pp. (1).

—— Description, progress and business; with references to the financial condition of the company and the value of its first mortgage six per cent. gold bonds. N. Y., 1875. O. pp. 21.
Cover title. In vol. "Southern Pacific. Pamphlets. 1."

—— Excursions weekly over the Sunset route, for New Orleans and other eastern cities. San Francisco, Oct.–Nov., 1894. folder. nar. O.

—— From the Crescent City to the Golden Gate via the Sunset route of the S. P. co.; by Ben C. Truman. N. Y., 1886. O. pp. 99 + (1). 69 *cts.*

—— Hotel del Monte, A. B. C. primer; by Ben C. Truman. [N. Y., printed,] n.d. obl. O. pp. (32). 26 *cts.*

—— The lands granted to and withdrawn for the benefit of the S. P. R.R. co. of California; Henry Beard, attorney. n.t.p. [1887?] O. pp. 88.
In vol. "Southern Pacific. Pamphlets. 3."

—— The lands of the S. P. R.R. co. of California; their situation, soil, climate, vegetation, present and prospective values, price, and the terms under which they are offered for sale; with general information on the resources of Southern California; Jerome Madden, land agent. San Francisco, June 1st, 1877. O. pp. 40.
In same.

—— The lands of the S. P. R.R. co. of California: with general information on the resources of Southern California; Jerome Madden, land agent. San Francisco, April 1st, 1880. O. pp. 136.
In same.

—— *Same.* San Francisco, April 1st, 1882. O. pp. 151.

—— *Same.* San Francisco, April 1st, 1883. O. pp. 151.

—— Letter of Mr. Hutchinson [general manager S. P. Atlantic system] to the chairman of the General grievance committee, Locomotive Engineers. n.t.p. [New Orleans, 1888.] F., folded to nar. O. pp. 5.
In same, 2.

—— A list of government and railroad lands open to pre-emption or homestead, or to purchase, along the lines of the C. P., and the California and Oregon railroads; specifically designated by section, township and range. [San Francisco,] 1886. O. pp. 96.
In same, 3.

—— *Same.* [San Francisco?] 1886. O. pp. 96.
Cover: "With compliments of the New York Central Agency."

—— List of officers, agencies and stations. San Francisco, Dec. 1st, 1888. nar. O. pp. 46.
In same, 2.

—— Official list (no. 1.) of officers, stations, agents; table of distances, etc. San Francisco, Oct. 1st, 1885. nar. D. pp. 36.
In same.

—— [Opening of the new, continuous, all-rail route between San Francisco and New Orleans: map and time schedule.] [San Francisco, Feb. 1st, 1883.] broadside. sq. Q.

—— Organization [S. P. R.R.]; articles of association and consolidation, and acts of Congress and of the legislature of California relative thereto. N. Y., 1873. O. pp. 87.
Cover title. In vol. "Southern Pacific. Pamphlets. 1."

—— *Same.* N. Y., 1875. O. pp. 113.
Cover title. In same.

—— Santa Cruz and Monterey illustrated hand-book; compiled by Henry Meyrick. San Francisco, 1880. O. pp. 51. 20 *cts.*
In same.

—— Shasta; the keystone of California scenery; by E. McD. Johnstone. [Buffalo, N. Y., printed, 1887.] sq. O. pp. (48.) 46 *colored illus.*

—— Southern Pacific co.; combination folder, containing natural attractions and comparative climate map of California, and bird's-eye map of the "Sunset route" from the Gulf to the Columbia river. San Francisco, Feb., 1888. folder. nar. O.

—— Southern Pacific railroad, via New Orleans, San Antonio and El Paso: argument before the Committee on railroads of the U. S. Senate, Mar. 12, 1878, by Richard S. Spofford: the Mexican and Pacific extension of the Galveston, Harrisburg, and San Antonio railway. Washington, 1878. O. pp. 22. 1 *fold. map.*
Cover title. In vol. "Southern Pacific Pamphlets. 2."

—— Souvenir guide to Monterey and vicinity. [San Francisco, 188–]. O. pp. 24 + (1). 3 *cts.*, 1 *fold. plate.*

—— [Souvenir of the Hotel del Monte, Monterey, Cal.] n.p., n.d. obl. O. 12 *plates.*

—— *Same;* by W. C. Morrow. [San Francisco, 188–]. sq. O. pp. 31 + (9). 14 *illus.*, 1 *fold. plate.*

—— "Sunset route": Texas and California. [Chicago, printed,] Dec., 1887. folder. nar. O.

—— Thirty-second parallel Pacific railroad: argument of James H. Storrs in behalf of the S. P. R.R., before the Committee on the Pacific railroads of the House of Representatives, and the Committee on railroads of the Senate, 45th Congress, on the pending propositions of the S. P. and Texas Pacific R.R. co's; Feb. 1878. Washington, 1878. O. pp. 56.
In vol. "Southern Pacific. Pamphlets. 2."

—— Thirty-second parallel Pacific railroad: arguments before the Committee on railroads, United States Senate, of Jere M. Wilson, and remarks of C. P. Huntington, in behalf of the S. P. R.R. co. of California, in opposition to bill to extend the time for completing the Texas Pacific road, and acquiring the public lands in the territories west of Texas. [Washington (?) 1880.] O. pp. 29.
In same.

—— Thirty-second parallel Pacific railroad: remarks of C. P. Huntington and argument of James H. Storrs in behalf of the S. P. R.R., before the Committee on the Pacific railroads, House of Representatives, 45th Congress, on the pending propositions of the S. P. and Texas Pacific R.R. Co's.; Jan. 31, 1878. Washington, 1878. O. pp. 62.
Cover title. In same.

—— Time table: Northern division, winter arrangement commencing Nov. 21st, 1879. [San Francisco, 1879.] nar. T. pp. (4).

—— [Time table, etc.] No. 1, April 20th, 1885. San Francisco, 1885. folder. nar. O.

—— Time Table, no. 7, [for the] Coast division, to take effect Sept. 14th, 1890. [San Francisco? 1890.] F. pp. (10).
This and the fourteen next following: "For the government and information of employees only."

—— *Same,* no. 3, to take effect July 25, 1892. [San Francisco? 1892.] obl. O. pp. 7.

—— Time table, no. 1, for lines in Oregon, to take effect July 1st, 1892. [San Francisco? 1892.] obl. O. pp. 11.

—— *Same,* no. 2, to take effect Sept. 5, 1892. [San Francisco? 1892.] obl. O. pp. 11.

—— Time table, no. 1, for the Lodi division, to take effect July 1st, 1892. [San Francisco? 1882.] obl. O. pp. (2).

—— Time table, no. 2, for the Los Angeles division, to take effect Aug. 7th, 1892. [San Francisco? 1892.] obl. O. pp. 9.

—— Time table, no. 2, for the Mojave division, to take effect July 28th, 1892. [San Francisco? 1892.] obl. O. pp. 5.

—— Time table, no. 49, [for the] Northern division, to take effect Oct. 18th, 1885. [San Francisco? 1885.] F. pp. (8).

—— Time table, no. 1, for the Sacramento division, to take effect July 1st, 1892. [San Francisco? 1892.] obl. O. pp. 7.

—— Time table, no. 1, for the Salt Lake division, to take effect July 1st, 1892. [San Francisco? 1892.] obl. O. pp. (4).

—— Time table, no. 2, for the San Joaquin division, to take effect July 25th, 1892. [San Francisco? 1892.] obl. O. pp. 6.

—— Time table, no. 1, for the Santa Cruz division, to take effect July 1st, 1892. [San Francisco? 1892.] obl. O. pp. 9.

—— Time table, no. 1, for the Truckee division, to take effect July 1st, 1892. [San Francisco? 1892.] obl. O. pp. (5).

—— Time table, no. 2, for the Yuma and Tucson divisions, to take effect July 31st, 1892. [San Francisco? 1892.] obl. O. pp. 6.

—— Time table, no. 1, for the Western division, to take effect July 1st, 1892. [San Francisco? 1892.] obl. O. pp. 17.

—— A tour through Texas and California in 1884; by W. G. Kingsbury, Western European agent, S. P. ry. Lond., [1885?] O. pp. 64.
Cover title.

—— Trust mortgage of the S. P. Branch ry. (of California.) San Francisco, 1887. O. pp. 17.
Cover title. In vol. "Southern Pacific. Pamphlets. 2."

—— The unique map of California; [by] E. McD. Johnstone. [San Francisco,] n.d. Size, 55.7 x 45.3 cm.

—— West by south, half south; by E. McD. Johnstone. [Buffalo, N. Y., printed, 1890.] sq. O. pp. 98 + (1). 73 *illus.*
In vol. "Southern Pacific. Pamphlets. 2."

—— BARBOUR, F. C. W. Overland by the Southern Pacific: from the Crescent City to the Pacific ocean. Meadville, Pa., 1892. O. pp. (11). 17 *cts.*
Extracted from *Chautauquan*, vol. 15, July, 1892.

—— CALIFORNIA King (The); Stanford's post-prandial New Year's day soliloquy. [San Francisco, 1876.] O. pp. 15. 1 *ct.*
In vol. "Southern Pacific. Pamphlets. 1."

—— FETTERED commerce: how the Pacific Mail and the railroads have bled San Francisco. San Francisco, 1892. O. pp. (2) + 5–46. 10 *cts.*
"A series of articles reprinted from the *San Francisco morning call.*"

—— SOUTHERN (A) overland glimpse. San Francisco, 1869. O. pp. (8).
Extracted from the *Overland monthly*, vol. 2, June, 1869.
In vol. "Southern Pacific. Pamphlets. 1."

—— UNITED STATES — *Department of War.* [Location of Southern Pacific and Texas Pacific railroads through Fort Yuma reservation and across the Colorado river.] n.t.p. [Washington, 1878.] O. pp. 34.
In same.

—— — *House of Representatives.* [Lands granted to the S. P. R.R.: report of the Committee on public lands. Ordered printed Feb. 24, 1886.] n.t.p. [Washington, 1886.] O. pp. 18.
In same.

—— — *Senate.* Argument before the Committee on railroads, as to the rights and interests of the S. P. R.R. co. of California, as affected by the Texas & Pacific railway bill; Jan. 20, 1875. n.t.p. [Washington, 1875.] O. pp. 10.
In same.

—— [Relief of settlers on public lands: report of the Committee on public lands in relation to the lands granted to the S. P. R.R. Ordered printed Mar. 28, 1876.] n.t.p. [Washington, 1876.] O. pp. 4.
In same.

Union Pacific. Report to the stockholders, for the year 1877, '79, '82, '83. N. Y., 1878–84. 4 vols. O.

—— Report of the directors to the stockholders, for 1885–88. [Boston? 1886–89.] 4 vols. sq. Q.

—— Agreement between the U. P. ry., Oregon Short Line ry., and Utah & Northern ry., and the Northern Pacific R.R. and Oregon ry. & navigation co.: dated Feb. 23d, 1883. n.p., n.d. O. pp. 13.
Cover title. In vol. "Union Pacific. Pamphlets. 3."

—— Argument before J. D. Cox, Secretary of the Interior, in support of the right of the Central branch U. P. R.R., to continue and extend its road to the "Main trunk," as one of the branches thereof; by Effingham H. Nichols. Washington, 1869. O. pp. 44.

—— Argument before J. D. Cox, Secretary of the Interior, showing that the act of 1866 has not repealed the right of the Central branch U. P. R.R. to continue and extend its road to the "Main trunk," as one of the branches thereof; by Effingham H. Nichols. Washington, 1870. O. pp. 19.

—— Argument in behalf of the Central branch U. P. R.R., before J. D. Cox, Secretary of the Interior; by William M. Evarts. n.p., [1870?] O. pp. 38.

—— A complete and comprehensive description of the agricultural, stock raising and mineral resources of Utah. 4th ed., revised and enlarged. St. Louis, 1891. O. pp. 16.

—— Correspondence between Col. J. H. Simpson and S. Seymour, consulting engineer, U. P. R.R., in relation to the mode of construction. [N. Y.? 1866?] O. pp. 9.
In vol. "Union Pacific. Pamphlets. 1."

—— A description of the western resorts for health and pleasure, reached via the Union Pacific system. 7th ed. St. Louis, 1894. O. pp. 166 + (4). 61 *cts.*

—— From summerland to the American Alps. Omaha, 1894. D. pp. 47 + (1). 17 *cts.*, 1 *map.*

—— A geological & agricultural survey of 100 miles west of Omaha; by the American Bureau of Mines. N. Y., 1866. O. pp. (3) + 7–44.
In vol. "Union Pacific. Pamphlets. 2."

—— A glimpse of Great Salt Lake, Utah. [Omaha,] 1894. sq. O. pp. 36 + (2). 19 *cts.*

—— The great national highway between the Missouri river and California; open from Omaha to the mountains. Chicago, 1868. O. pp. 13 + (2).
Cover title: "Omaha to the mountains. . . " In vol. "Union Pacific. Pamphlets. 2."

—— *Same.* [Another work.] Chicago, 1868. O. 12 + (4).
Cover title: "Omaha to California."

—— The great U. P. R.R. excursion to the hundredth meridian: from New York to Platte City; incidents of the excursion, character of the country, statistics of the road, its progress and trade; meeting at Platte City; reception at Chicago. Chicago, 1867. O. pp. 62. 1 *plate.*
In vol. "Union Pacific. Pamphlets. 2."

—— Guide to the U. P. R.R. lands. 5th ed. Omaha, 1872. O. pp. iv + 5–48. 2 *fold. maps.*
In same.

—— Guide to the U. P. R.R. lands. Omaha, 1876. O. pp. 30 + (2). 1 *fold. map.*
Cover title. In same.

—— A letter from William Whiting to Henry Wilson, of the U. S. Senate, showing that the government is bound to fulfil in good faith its contract with the Central branch, U. P. R.R. n.t.p. [Washington, March 7, 1870.] O. pp. 7.

—— Letter of J. L. Williams on the location between Omaha city and Platte valley. n.t.p. [N. Y., Jan. 2, 1865.] O. pp. 5.

—— Letter [to the Secretary of the Interior] of J. L. Williams [one of the government directors] on location and progress of U. P. R.R. n.t.p. [Fort Wayne, Ind., Nov. 15, 1864.] O. pp. 6.

—— [*Manuscript:*] Copy of letter to Col. J. H. Simpson, submitting data and arguments relative to change of location west of Omaha, Aug. 28, 1865; S. Seymour, consulting engr. U. P. R.R. [N. Y., 1865.] sq. Q. pp. 26.
Col. Seymour's autograph copy; on paper headed "Union Pacific Rail Road Company" &c. The above title is the one endorsed on the back.

—— [*Manuscript:* Engineer's location survey profiles.] n.d. 6 rolls.
Namely:—Crow Creek to Laramie river. Size, 16.5 x 854.35 cm.—Line L from sta. 1706 of line D. Size, 16.5 x 226.7 cm.—Old location from Crow Creek to sta. 1100. Size, 16.5 x 697 cm.—Old location west of sta. 1100. Size, 16.5 x 378.2 cm.—Walbach and Crow Creek line, surveys of 1865. Size, 16.5 x 319.65 cm.—Weber Cañon to mouth of Echo Cañon. Size, 12 x 1070.6 cm.

—— [*Manuscript:* Letter to Thomas C. Durant, vice president, U. P. R.R., relative to change of location, Dec. 21, 1864; S. Seymour, consulting engr. U. P. R.R. N. Y., 1864.] sq. Q. pp. 19.
In autograph of S. Seymour.

—— [*Manuscript:*] Report by Thomas H. Bates, division engineer, for 1866. [Salt Lake City, 1866.] F. pp. 38.

—— Opinion of Benj. R. Curtis, relating to the right of the Central branch U. P. R.R. to continue and extend its road to the "Main trunk," and for and in aid of the construction thereof to receive lands and bonds from the United States. Washington, 1869. O. pp. 8.

—— Passenger department bulletin for July, 1880. Omaha, 1880. nar. D. pp. 63.
In vol. "Union Pacific. Pamphlets. 3."

—— Progress of their road west from Omaha, Neb., across the continent; making, with its connections, an unbroken line from the Atlantic to the Pacific: 500 miles completed Oct. 25th, 1867. N. Y., 1867. O. pp. 24. 1 *map.*
In same, 2.

—— *Same.* 540 miles completed Dec., 1867. N. Y., 1868. O. pp. 32. 1 *map.*
"Pamphlet edition, April 2, 1868."

—— Progress of the U. P. R.R. west from Omaha, Neb., across the continent; making, with its connections, an unbroken line from the Atlantic to the Pacific ocean: 820 miles completed Sept. 20, 1868. N. Y., 1868. O. pp. 40. 1 *map.*
"Pamphlet edition, Sept. 25th, 1868." In same.

—— Progress of the U. P. R.R. west from Omaha, Neb., across the continent; making, with its connections, an unbroken line from the Atlantic to the Pacific ocean: 1032 miles completed Mar., 1869: the present and prospective value of the company's first mortgage bonds. N. Y., 1869. O. pp. 24. 1 *map,* 1 *fold. map.*
"Pamphlet edition, Mar. 1, 1869." Cover dated 1868. In same.

—— Report of Gen. G. M. Dodge, chief engineer, on lines crossing the Rocky mountains. N. Y., 1867. O. pp. 33. 3 *figs.*, 4 *plates*, 1 *fold. section.*
In same, 1.

—— Report of the consulting engineer [Silas Seymour], on the location between Omaha city and the Platte valley, dated Dec. 21, 1864. N. Y., 1865. O. pp. 9 + xxxviii. 1 *fold. map.*
Cover title. In same.

—— Report of Thomas C. Durant, vice-president and general manager, to the Board of directors, in relation to the operations of the engineer department, and the construction of the road, up to the close of the year 1865. N. Y., 1866. O. pp. (1) + 19 + 18 + 23 + 18 + 64. 14 *plates*, 4 *fold. plates*, 3 *fold. plans.*

—— Report of Thomas C. Durant, vice-president and general manager, to the Board of directors, in relation to the surveys made up to the close of the year 1864. N. Y., 1866. O. pp. (1) + 8 + 24 + 11 + 15. 14 *plates*, 4 *fold. plans.*
In vol. "Union Pacific. Pamphlets. 1."

—— Report [on the change of location of the line west from Omaha], of Springer Harbaugh, government director, to the Secretary of the Interior. n.t.p. [Pittsburgh, July 20, 1865.] O. pp. 9.
In same.

—— Romantic realities; the story of the building of the Pacific roads: a paper on the transcontinental railways; by Gen. G. M. Dodge. Omaha, 1889. O. pp. 23.
In vol. "Union Pacific. Pamphlets. 3."

—— Senate bill no. 469: will Congress preserve good faith with the Central branch U. P. R.R.? Statement of William Claflin [and others], on behalf of themselves and other stockholders. n.t.p. O. pp. 6.

—— Three studies in railroading Omaha, [1893.] obl. T. pp. 79 + (1).
Contents:—**Dodge, *Gen.* G. M.** Building the road. —**Dillon, S.** Driving the last spike.—**Dillon, S.** The west and the railroads.
"Compliments of Passenger department U. P. system."

—— Supplemental report of the consulting engineer [Silas Seymour], on bridging the Missouri river, at the eastern terminus of the road: dated Mar. 24, 1868. N. Y., 1868. O. pp. 16.
Cover title. In vol. "Union Pacific. Pamphlets. 1."

—— Union Pacific guide; a descriptive and illustrated guide to the U. P. system. Omaha, 1894. nar. O. pp. 168 + (3). 5 *photos.*, 1 *map.*

—— The Union Pacific R.R.: acts of Congress relating thereto, and amendments; by-laws of the company; and mortgages, executed for the security of the first mortgage, land grant, income, bridge, and sinking fund bonds. Boston, 1874. O. pp. 129 + (1).
Cover title. In vol. "Union Pacific. Pamphlets. 3."

—— The Union Pacific R.R. from Omaha, Neb., across the continent; making, with its connections, an unbroken line from the Atlantic to the Pacific ocean; chartered by the United States: its construction, resources, earnings, and prospects. N. Y., [1867?] O. pp. 7 + (1). 1 *fold. map.*
In same, 2.

—— *Same.* [Another work.] N. Y., [May 15, 1867.] O. pp. 16.
Cover title. In same.

—— The Union Pacific ry., Eastern division, or Kansas Pacific ry.: economy to the government, statement of J. D. Perry, president, [etc.] Washington, 1868. O. pp. 56.

—— Ein Wegweiser über die Union Pacific Bahn und ihre funf millionen Acker Land für Farmer und Heimstätten in Kansas und Colorado. Bremen, printed, [1892?] O. pp. 24. 1 *fold. map.*
Cover title.

—— CENTRAL PACIFIC. Review of the opinion of Attorney general Ackerman, upon the question whether the U. P. R.R. co. is required to pay the interest on its U. S. Bonds before the maturity of the principal; by S. W. Sanderson, counsel. Sacramento, 1871. O. pp. 33.
Cover title. In vol. "Union Pacific. Pamphlets. 3."

—— DAVIS, J. P. The Union Pacific railway: a study in railway politics, history and economics. Chicago, 1894. O. pp. (2) + 5–247. 2 *fold. maps.*

—— DURANT, T. C. Statement in reply to the testimony of John B. Alley, taken on the 7th day of Jan., 1873, before the committee appointed by the House of Representatives to investigate charges of bribery against members of Congress. [Credit Mobilier investigation]. n.p., [1873?] O. pp. 52.
Cover title. In same, 4.

—— GARFIELD, J. A. Review of the transactions of the Credit Mobilier company and an examination of that portion of the testimony taken by the committee of investigation and reported to the House of Representatives at the last session of the 42d Congress, which relates to Mr. Garfield. Washington, 1880. O. pp. 24.
Cover title.

—— UNITED STATES—*Commissioner of Railroads.* [Report on and] copies of contracts of the U. P. R.R. co. with the Western Union telegraph company. Ordered printed April 1, 1885. n.t.p. [Washington, 1885]. O. pp. 79.

—— Report relative to issue of stock [by the Union Pacific R.R.] or making contracts since Mar. 3, 1873. Ordered printed Feb. 28, 1884. n.t.p. [Washington, 1884]. O. pp. 19.

—— [Report] transmitting certain papers giving names of corporations whose bonds and interest have at different times been guaranteed by the U. P. ry. Ordered printed July 26, 1890. [Washington, 1890.] O. pp. 20.

—— —*Department of the Interior.* Report of Col. James H. Simpson, on the change of route west from Omaha, proposed by the U. P. R.R. co., made to Secretary of the Interior, Sept. 18, 1865; with the President's decision thereon. Washington, 1865. O. pp. 70 + (1). 1 *fold. plan*, 1 *fold. map.*
In vol. "Union Pacific. Pamphlets. 1."

—— —*Government Directors of the Union Pacific.* Report for the year ending June 30, 1877–92. Washington, 1877–92. 8 vols. O.

—— Report suggesting legislation [affecting the U. P. R.R.] Ordered printed Dec. 21, 1886. n.t.p. [Washington, 1886.] O. pp. 7.
In vol. "Union Pacific. Pamphlets. 3."

—— —*House of Representatives.* Affairs of the Union Pacific R.R. [Report of the select

committee no. 2 on the Credit Mobilier, appointed to make inquiry in relation to the affairs of the U. P. R.R. co., the Credit Mobilier of America, and other matters.] Ordered printed Feb. 20, 1873. n.t.p. [Washington, 1873.] O. pp. xxvi + 770.

—— Credit mobilier investigation; [report of the select committee to investigate alleged Credit Mobilier bribery.] Ordered printed Feb. 18, 1873. n.t.p. [Washington, 1873.] O. pp. xix + 523.
In vol. "Union Pacific. Pamphlets. 4."

d. Maps.

Colton's new railroad and county map of the United States, the Canadas, &c. N. Y. & Lond., 1862. Scale, [48 m. = in.] Size, 77.5 x 92.3 cm.
Contains Colton's map showing proposed railroad routes to the Pacific ocean. Scale, [415.5 stat. m. = in.] Size, 17.5 x 24.7 cm.

General railway map of the United States and the Dominion of Canada. N. Y., [1891]. Size, 65.7 x 121.5 cm.
Presented with the *Travellers' official guide* for 1892.

Lloyd's new map of the United States, the Canadas and New Brunswick, from the latest surveys, showing every railroad and station finished to June, 1862, and the Atlantic and Gulf coasts; from the United States superintendent's official reports of the coast survey by order of Congress. N.Y., 1863. Scale, [35. m.= in.] Size, 93.5 x 124.8 cm.

Mitchell's map of the United States; showing the principal roads, also the courses of the canals & rail-roads. Philadelphia, 1835. Scale, [*ca.* 77.4 m. = in.] Size, 45.4 x 56.2 cm.
Accompanied by:

—— Compendium of the internal improvements of the United States; comprising general notices of all the most important canals and railroads throughout the states and territories. Philadelphia, 1835. S. pp. 84.

Mitchell's national map of the American republic, or, United States of North America. Philadelphia, 1846. Scale, [53.3 m. = in.] Size, 59.4 x 83.2 cm.
West to the Mississippi and Missouri rivers. Oregon and Texas given separately on smaller scale. Accompanied by:

—— A route-book, adapted to Mitchell's national map of the American republic. Philadelphia, 1846. T. pp. 52.

Vanderbilt lines (The): America's great railway system: New York Central and Hudson river; Boston and Albany; Lake Shore and Michigan Southern; Michigan Central; Cleveland, Cincinnati, Chicago and St. Paul; Pittsburg and Lake Erie; and Rome, Watertown and Ogdensburg railroads. N. Y., 1893. Scale, [*ca.* 20.7 m. = in.] Size, 87.6 x 141.7 cm.

Asia.

Boulangier, E. Notes de voyage en Sibérie: le chemin de fer transsibérien et la Chine. Paris, 1891. nar. Q. pp. (3) + vii–xii + 397 + (1). 83 *illus.*, 1 *map*, 2 *fold. maps.*

—— Voyage à Merv: les Russes dans l'Asie centrale et le chemin de fer transcaspien. Paris, 1888. D. pp. (3) + 451. 84 *illus.*, 10 *maps*, 4 *fold. maps.*

Brownislawski, V. Le chemin de fer transsibérien; communication faite à la Société de géographie commerciale de Bordeaux, séance mensuelle du 4 décembre 1893. Bordeaux, 1894. Q. pp. 15. 1 *fold. map.*
"Extrait du *Bulletin de la Société de géographie commerciale de Bordeaux.*" Cover title.

Dernburg, F. Auf deutscher Bahn in Kleinasien. Berlin, 1892. D. pp. (2) + 197. 1 *fold. map.*
"Die anatolische Bahn von Haidar Pascha [bei Ismid] nach Angora."

Forchheimer, P. Die Eisenbahn von Ismid nach Angora. Berlin, [1891.] Q. pp. (2) + 34. 2 *figs.*, 3 *fold. plates*, 1 *map.*
"Sonderdruck aus der *Zeitschrift für Bauwesen*, Jahrg. 1891."

France — *Ministère des Travaux Publics.* Chemin de fer transcaspien; rapport de mission, par M. Boulangier. Paris, 1887. O. pp. (2) + 5–67. 6 *figs.*, 1 *map*, 1 *fold. map.* P. 56.
"Extrait de la *Revue du génie militaire*, avril-juin 1887."

Gribayédoff, V. The great trans-Siberian railway. N. Y., 1893. O. pp. (7). 12 *cts.* P. 56.
Extracted from the *Cosmopolitan*, vol. 14. Mar. 1893.

Japanese railways: time tables. Nov., 1889. Yokohama, [1889.] D. pp. 79–100. P. 78.

McBean, S. England, Palestine, Egypt & India, connected by a railway system. Lond., 1876. D. pp. (3) + vii–xvi + 143. 1 *fold. map.*
"To John Haddock, with the author's compliments."

Menz, R. Deutsche Arbeit in Kleinasien: Reiseskizze und Wirthschaftsstudie. Berlin, 1893. D. pp. 117.
"Die anatolische Eisenbahn."

Potter, W. F. Railway work in Japan. Lond., 1879. O. pp. 25. 1 *fold. plate.*
"Excerpt *Minutes of Proceedings of the Institution of Civil Engineers*, vol. 56. Session 1878-79, pt. 2."

Russia. The industries of Russia. Vol. 5: Siberia and the great Siberian railway. St. Petersburg, 1893. Q. pp. xii + 265. 1 *fold. map.*
"By the Department of Trade and Manufactures, Ministry of Finance, for the World's Columbian exposition at Chicago; editor of the English translation, John Martin Crawford."

Sprye, *Capt.* **R.** The British and China railway: from Rangoon, in the Bay of Bengal through Pegue and Burmah, to China: projected by Cap-

tain Richard Sprye, R. H. F. Sprye, and C. H. F. Sprye; in a series of letters to the Earl of Malmesbury. Lond., 1858. sq. O. pp. (4) + 26 + (2) + xii + (2). 1 *fold. map.*
"To Viscount Goderich, with the compts. of Captn. Richard Sprye & Sons. Lond., December 1858."

Stephenson, *Sir* **Mac D.** Railways in China; report upon the feasibility and most effectual means of introducing railway communication into the empire of China. Lond., 1864. F. pp. 55. 1 *fold. map.*

Zimpel, C. F. Railway between the Mediterranean, the Dead Sea, and Damascus, by way of Jerusalem. Lond., 1865. O. pp. 31. P. 57.
Map lacking.

I. EUPHRATES VALLEY.

Andrew, *Sir* **W. P.** The Euphrates route to India; letters addressed to the British and Turkish governments, etc.; with introductory remarks and appendix. Lond., 1871. O. pp. 38.
In vol. "Euphrates Valley railway. Pamphlets."

—— The Euphrates Valley railway: letters addressed to Her Majesty's Secretaries of state for foreign affairs, and for India; with introductory remarks and map. Lond., 1870. O. pp. 53. 1 *fold. map.*
In same.

—— The Euphrates Valley route to India; a paper read before the British Association, at Brighton, August, 1872; with map, and appendix containing a letter from Sir Henry Green, and report of the select committee of the House of Commons on the Euphrates Valley railway. Lond., 1873. O. pp. (5) + 11-62. 1 *fold. map.*
In same.

—— Lecture [before the Royal United Service Institution]: the Euphrates Valley route to India in connection with the Central Asian question. n. t. p. [Lond., 1873.] O. pp. 29. 1 *fold. map.*
Extracted from the *Journal Royal United Service Institution*, vol. 17, 1873. In same.

—— Letter to Viscount Palmerston, on the political importance of the Euphrates Valley and the necessity of the financial support of her Majesty's government. Lond., 1857. O. pp. (2) + 68. 1 *fold. map.*

—— Memoir on the Euphrates Valley route to India; with official correspondence and maps. Lond., 1857. O. pp. (3) + vii-xvi + 267. 2 *fold. maps.*
"Thos. Rupel Crampton, from the author."

— EUPHRATES Valley (The) route to India: an examination of the memoir published by W. P. Andrew; by two travellers. Lond., 1857. O. pp. 32.
In vol. "Euphrates Valley railway. Pamphlets."

Cazalet, E. The Eastern question: an address to working men; with map showing the projected line of the Euphrates Valley railway. Lond., 1878. O. pp. (3) + 3-64. 1 *fold. map.*

Euphrates Valley Railway. Prospectus. n.p., [1856?] O. pp. 12. 1 *fold. map.*
Bd. with "Scinde Railway. Second Report of the directors, 1856."

Euphrates Valley (The) railway; by an Austrian officer of high rank; translated by Captain C. W. Wilson, R. E. Authorized translation. Lond., 1872. O. pp. 20. 1 *fold. map.*
On p. 20, "Written in 1858, published in 1869." In vol. "Euphrates Valley railway. Pamphlets."

Euphrates versus Suez, or, which is the shortest? Being a reply to a Quarterly Reviewer of "The Suez and Euphrates routes to India." By a barrister. Lond., 1857. O. pp. 32.
In same.

European interests in the Euphrates Valley route; a compilation. Lond., 1861. O. pp. 36.
In same.

Great Britain—*Foreign Office.* Reports respecting communication with India through Turkey, by the Euphrates Valley route. Presented by command, 1872. Lond., [1872.] F. pp. 75. 4 *fold. maps.*

—— — *House of Commons.* Report from the Select committee on the Euphrates Valley railway; with the proceedings of the committee, minutes of evidence, appendix, and index. Ordered printed, 27 July, 1871. [Lond., 1871.] F. pp. vi + 82.

—— *Same.* Ordered printed, 22 July, 1872. [Lond., 1872.] F. pp. xxvi + 220.

Parkes, W. Euphrates Valley railway; report on the ports of the Persian gulf, with charts; addressed to W. P. Andrew. Lond., 1872. O. pp. (2) + 5-16. 2 *fold. charts.*
In vol. "Euphrates Valley railway. Pamphlets."

Warren, *Count* **E. de.** European interests in railways in the valley of the Euphrates. Lond., 1857. O. pp. 31. P. 57.
"Translated from the *Revue contemporaine*, March 15, 1857." Cover title.

II. INDIA.

[Andrew, *Sir* **W. P.]** The East India government guarantee on railways, with Lord Canning's speech on the opening of the railway from Calcutta to the Ganges. 3rd ed. Lond., 1861. O. pp. 34. P. 66.

[——] Indian railways and their probable results, with maps and an appendix; containing statistics of internal and external commerce of India, by an old Indian postmaster. 3d ed. Lond., 1848. O. pp. (6) + lviii + ii + viii + 150 + (1) + xxv. 2 *fold. maps*, 2 *fold. tables.*
"J. Latham Brown, from the author."

—— Indian railways as connected with British

empire in the East. 4th ed. Lond., 1884. O. pp. cxii + 296. 1 *fold. map in pocket*, 1 *fold. table.*

—— On the completion of the railway system of the valley of the Indus; a letter to the Duke of Argyle. Lond., 1869. O. pp. (2) + 124. 2 *fold. maps.*
In vol. "Andrews. Indian railways."

—— On the establishment of a flotilla of steam vessels of improved construction, on the Indus, in connection with the Scinde and Punjaub railways. 2nd ed. Lond., 1857. O. pp. 45.

—— Railways in Bengal; being the substance of a report addressed to the chairman of the East India company in 1849; [with prospectus of the Upper India railway company.] Lond., 1853. O. pp. 49 + 18.
"Reprinted from the *Artizan*, of June, 1851." In vol. "Andrews. Indian railways."

Assam Railways and Trading Co. 13th, 14th report of the directors, with the balance sheet and revenue accounts for 1893, 1894. [Lond., 1894–95.] 2 vols. F.

Bell, H. Railway policy in India. Lond., 1894. O. pp. (5) + 359. 4 *fold. plates*, 1 *fold. map.*
Contents: — Historical sketch.— Guarantees and assistance.—State construction and administration.—History of the gauge on Indian railways.—Rates and fares.—Indian railway legislation.

Bombay, Baroda and Central India. Report on line. Lond., 1854. O. pp. 72.

—— [Report on surveys, etc.] n.t.p. [1851?] O. pp. xi + 77 + 88. 2 *fold. maps.*

Bourne, J. Railways in India; with an introduction, illustrative of the practicability of rendering available existing works in diminution of the cost of such undertakings. 2nd ed. Lond., 1848. O. pp. 24 + 127. 1 *map.* P. 66.
"C. D. Bruce, with the author's compts."

Calcutta and Diamond Harbour Railway and Dock Co. Remarks on the plan of a railway from Calcutta to Diamond Harbour; to which is added a letter to the directors of the East India company; by the chairman of the Committee of management. Lond., 1845. O. pp. 16 + 10–40. 1 *fold. plate*, 2 *fold. maps.*

Ceylon Government Railways — GREAT BRITAIN—*Colonial Office.* Ceylon railway: copy of Mr. Hawkshaw's report, dated 18 June, 1860, and letter of the same date, to the Secretary of state for the colonies, on the subject of the Ceylon railway, and of the tenders relating thereto. Ordered printed, 16 July, 1860. [Lond., 1860.] F. pp. 10. 1 *fold. diagr.*

—— — *Parliament*—34 & 35 *Vict.* Papers relating to the affairs of the Ceylon railway. Presented by command. Lond., 1871. F. pp. 51.
In vol. "Railways in India. 1."

—— SMITH, *Major* C. J. Note on the Ceylon government railway. n.t.p. [Madras, 5th June, 1876.] F. pp. 7. M. 15.

Clarke, H. Colonization, defence, and railways in our Indian empire. Lond., 1857. O. pp. (5) + 244. 1 *fold. map.*

East Indian Railway. 66th–98th report of the directors. 2 Jan., 1880–26 June, 1895. [Lond., 1880–95.] 32 vols. F.
69th report lacking.

—— Report of the proceedings at the 30th–32nd annual meeting of proprietors, held July, 1877–1879. Lond., 1877–79. 3 vols. O.
32nd, "and at the special general meeting of proprietors 14th Feb. 1879." "Reprinted from *Herapath's railway journal.*"

—— Report of the proceedings at the 30th–32nd half yearly general meeting of proprietors, held 2nd Jan., 1878–1880. Lond., 1878–80. 3 vols. O.
31st, "at an adjourned extraordinary general meeting of proprietors held 29th Nov., 1878, and at . . ." "Reprinted from *Herapath's railway journal.*"

—— Address of the chairman at the 43rd–48th annual general meeting of the proprietors, held 3rd July, 1890–26th June, 1895. Lond., [1890–95.] 6 vols. O.

—— Address of the chairman at the 43rd–46th half-yearly general meeting of proprietors, held 2nd Jan., 1891–20th Dec., 1893. Lond., [1891–94.] 4 vols. O.

—— East Indian railway company purchase act, 1879: a short account of the preliminary negotiations. Lond., 1880. O. pp. 47.

—— A letter to the Secretary of State for India on the constitution and management of the East India railway; by R. W. Crawford, chairman of the company. [Lond.,] 1867. O. pp. 54.

—— Report of the proceedings at an extraordinary general meeting of proprietors, held 19th Nov. 1878. Lond., 1878. O.

—— Result of the working of the East Indian railway during 1880–1884, 1880–1885, 1885–1888, with the average of the years 1880–4, being the first five, six, nine years under the new contract between the Secretary of State for India in Council and the East Indian railway. [Lond., 1885–89.] 3 pts. F.

—— CRAWFORD, R. W. East Indian railway, some observations on the development of the railway system of the valley of the Ganges. Lond., 1886. O. pp. (2) + 5–16. 1 *fold. map.*

—— Speech in Committee on the East India revenue accounts. In the House of Commons, Aug. 3, 1869. Lond., 1869. O. pp. 8.
"Extracted from *Hansard's parliamentary debates.* vol. 198."

—— GREAT BRITAIN—*House of Commons.* Special report from the select committee on the

East Indian railway bill; with the proceedings of the committee, minutes of evidence, and appendix. Ordered printed 13 June, 1879. [Lond., 1879.] F. pp. xx + 100.
In vol. "Railways in India. 3."

—— — *Parliament* — 17 *Vict.* An act to amend an act intituled, "An act for incorporating the East Indian railway, and for other purposes connected therewith." Royal assent, August 20th, 1853. [Lond., 1853.] F. pp. (1) + 7.

Grant, *Col.* **C. W.** Bombay cotton and Indian railways. Lond., 1850. O. pp. (2) + 5–150 + (2). 1 *plate*, 1 *fold. plate*, 1 *fold. map.*

Great Britain—*House of Commons.* Copies of despatches from the Court of directors of the East India company to the Governor-general of India in Council, in reply to their letter, dated 4 May, 1853; and of despatches to the governments of Madras and Bombay regarding the measures adopted by the Court for extending railway undertakings in India. Ordered printed, 20 June, 1854. [Lond., 1854.] F. pp. 23.
In vol. "Railways in India. 2."

—— [*Continued:*] Copies and extracts of correspondence relative to the progress of railway undertakings in India. Ordered printed, 25 May, 1855. [Lond., 1855.] F. pp. 17.
In same.

—— Copies or extracts of correspondence from the Governor-general in Council in India, relative to railway undertakings in that country. Ordered printed, 19 July, 1853. [Lond., 1853.] F. pp. 142.
In same.

—— Copy of memorandum by Major Kennedy, on the question of a general system of railways for India. Ordered printed, 27 March, 1854. [Lond., 1854.] F. pp. 20. 5 *maps*, 2 *sections.*
In same.

—— A copy of the memorandum laid before the Court of directors of the East India company upon railways in India, sanctioned and projected. Ordered printed 24 July, 1857. [Lond., 1857.] F. pp. 6. 1 *fold. map.*
In same.

—— Railway communication in India; copies of papers referring to the general question of railway communication in India. Ordered printed 8 July, 1850. [Lond., 1850.] F. pp. 8.
In same.

—— Report from the select committee on East India (railways); with the proceedings of the committee, minutes of evidence, and appendix. Ordered printed 13 July, 1858. [Lond., 1858.] F. pp. xxii + 305 + iv + 60.
In same, 3.

—— Report from the select committee on East India railway communication; with the proceedings of the committee, minutes of evidence, and appendix. Ordered printed 18 July, 1884. Lond., [1884.] F. pp. xxxii + 1066. 1 *fold. map.*

—— Returns of the whole outlay sanctioned by the East India company for the purposes of railways in India, independently of the cost of land, of the amounts which have been paid into and out of the East India company's treasuries on account of Indian railways; and of the directions of lines of railways sanctioned in India, sketched on a skeleton map of that country. Ordered printed, 22 June, 1857. [Lond., 1857.] F. pp. 2. 1 *fold. skeleton map.*
In vol. "Railways in India. 2."

—— — *House of Lords.* Copies of correspondence between the government of India and the Court of directors, and of documents received from India relative to the lines to be selected for the system of railway communications in that country. Ordered printed 21st July, 1853. [Lond., 1853.] F. pp. 168.
In same.

—— — *India Office.* East India (frontier railways); copy of a map showing the new railways and roads made or proposed to be made upon the northwestern frontier of India. Ordered printed 15 June, 1885. Lond., [1885.] F. pp. (1). 1 *fold. map.*
In same, 3.

—— East India (Isthmus of Kraw railway); copies of correspondence relative to proposed railway across the isthmus of Kraw. Ordered printed 16 March, 1863. [Lond., 1863.] F. pp. 14. 2 *fold. maps.*
In same, 1.

—— East India (railway communication committee); copy of correspondence between the Secretary of State and the government of India, on the subject of the Report of the select committee of 1884 on East India railway communication. Ordered printed 12 March, 1885. [Lond., 1885.] F. pp. 31.
In same, 3.

—— East India (railways); copies of all contracts or agreements entered into by the East India company, or by the Council for India, with any company formed for making railways, or other public works in India, by which contracts or agreements a rate of interest is guaranteed upon the capital of such companies already paid up, or hereafter to be paid up; and statement giving the title and object of such companies, the amount of the capital of each company, the rate of interest guaranteed, and the conditions or circumstances (if any) under which the government of India is liable for the repayment of such capital, either at the option of the companies, or of that of the government. Ordered printed, 19 April, 1859. [Lond., 1859.] F. pp. 205.
In vol. "India. Railway contracts returns."

—— [*Continued:*] East India (railway contracts); copy of all contracts or agreements entered into by the Secretary of State for India since the

8th April, 1859, with any company for the construction of railways in India. Ordered printed, 10 August, 1871. [Lond., 1871.] F. pp. 244.
In same.

—— [*Continued:*] East India railways: copy of the contracts or agreements entered into by the Secretary of State for India with any company for the construction of railways in India. Ordered printed 1 Dec., 1882. [Lond., 1882.] F. pp. ix + 142.
In same.

—— East India (railways); copies of despatch from the government of India and minute by the late Governor general, and despatch to the government of India, no. 42, on the subject of railway extension in India. Presented by command. Ordered printed 23 July, 1869. [Lond., 1869.] F. pp. 39.
In same, 3.

—— [*Continued:*] East India (railways); copy or extracts of correspondence on the subject of the extension of railways in India, and their future construction and management, previous to that presented to the House of Commons on 23 July, 1869. Ordered printed 9 August, 1869. [Lond., 1869.] F. pp. 127.

—— [*Continued:*] East India (railway extension); copies of correspondence between the Secretary of State for India and the Governor general of India in Council, relative to railway extensions in India; and a Report by J. Fowler on the most suitable gauge for narrow gauge railways in India. Ordered printed 4 April, 1871. [Lond., 1871.] F. pp. 73.

—— Report to the Secretary of State for India in Council on railways in India, to the end of the year 1859; for the year 1860–61—1881–82; by Juland Danvers, secretary, Railway department, [government director of the Indian railway companies.] Presented by command. Lond., 1860–82. 23 vols. bd. in 2. F.

—— Selections from the records of the government of India, Home department: no. 1; papers on the proposed railway in Bengal. Calcutta, 1853. nar. O. pp. (2) + 31 + (1) + iv + 33–102. 7 *fold. maps.*

—— — *Parliament*—44 *Vict.* Copy of correspondence between the Foreign Office and the India Office; between the Secretary of State for India and the Governor-general of India in Council; and between the India Office and the promoters of a scheme for improving the harbour of Marmagâo and for the construction of a railway from that port to the British frontier. Presented by command. Lond., 1881. F. pp. 80. 1 *map.*
In vol. "Railways in India. 1."

Great Indian Peninsula Railway. Annual report of the company, for 1859–60, 1860–61, to the Secretary of State for India in Council. Lond., 1861–62. 2 vols. F.

—— Report [of Robert Stephenson], maps and papers. Lond., 1847. F. pp. 59. 3 *fold. maps.*

India—*Public Works Department.* Report to the Secretary of State for India in Council on railways in India, for the year 1882–83; by Colonel F. S. Stanton, director-general of railways in India. Presented by command. Lond., 1883. F.

Madras Railway—GREAT BRITAIN—*House of Commons.* Copies of the correspondence between the promoters of the Madras ry. and the Court of directors of the East India company; and of any official reports with reference to the same subject. Ordered printed, 31 May, 1853. [Lond., 1853.] F. pp. 85.
In vol. "Railways in India. 1."

—— — *Parliament*—16 *Vict.* An act for incorporating the Madras railway and for other purposes connected therewith. Royal assent, June 14, 1853. [Lond., 1853.] F. pp. (1) + 8.

Progress (The) of India. Lond., 1864. O. pp. (42). 1 *fold. map.* P. 66.
Review of J. Danvers' Report to the Secretary of State for India in Council on railways in India for 1862-63, etc. Extracted from the *Edinburgh review*, vol. 119, pp. 95-136.

Railways in India; being several articles reprinted from the *Railway register.* 3rd ed. Lond., 1846. O. pp. (2) + 64. 2 *fold. maps.* P. 66.

Scinde Railway. Second report of the directors to the proprietors, submitted at the first half-yearly general meeting, 4th of Nov., 1856. Lond., [1856]. O. pp. (2) + 5–19. 1 *fold. map.*
The report of the "first annual general meeting" Feb. 18, 1856, will be found in Andrews' Scinde railway, next title, but one, below.

—— Report of the formal opening throughout, by H. M.'s Commissioner in Scinde, 11th May, 1861. [Kurrachee, 1861.] O. pp. 30.
"Reprinted from the *Kurrachee herald.*"

—— ANDREW, *Sir* W. P. The Scinde railway and its relations to the Euphrates valley, and other routes to India; [with prospectus of the Mediterranean and Indian electric telegraph company; and the first report of the directors of the Scinde ry.] Lond., 1856. O. pp. vii + (1) + 241. 5 *fold. maps,* 3 *fold. tables.*

—— WELLS, H. India and Russia: the Scinde railway, its origin and policy. Lond., 1869. O. pp. (2) + 7–64. 1 *fold. map.*
In vol. "The Scinde railway."

South Eastern of Bengal Railway—GREAT BRITAIN—*India Office.* Returns of interest paid on the guaranteed capital of the South Eastern of Bengal or Mutlah railway, and of the amount of traffic and working expenses for each half year since the line was opened. Ordered printed 7 April, 1865. [Lond., 1865.] F. pp. 51.
In vol. "Railways in India. 1."

South Indian Railway. 1st–8th report of the directors, 16th Feb., 1892–28th May, 1895. [Lond., 1892-95.] 8 vols. F.

—— [Guide book.] n.t.p. [1894.] O. pp. 2 + 146. 1 *fold. map.*

Southern Mahratta Railway — GREAT BRITAIN—*India Office.* Copy or extracts of correspondence between the Secretary of State for India and the government of India and the promoters, with reference to the formation of the Southern Mahratta railway. Ordered printed 1 July, 1882. [Lond, 1882.] F. pp. 22.
In vol. "Railways in India." 1."

Ward, J. The true policy of organizing a system of railways for India; a letter to the president of the Board of control. Lond., 1847. O. pp. 37.

Williamson, T. Two letters on the advantages of railway communication in western India; addressed to Lord Wharncliffe. Lond., 1846. O. pp. 38.

Europe.

Bombe (Die): Enthüllungen über den Bau und die Verwaltung der serbischen Staatsbahnen. Aus dem Serbischen übersetzt von W. Rudow, mit einem Vorwort von Carl Paasch. 2e Auflage. Leipzig, [1893.] D. pp. 100.

Boyd, C. Boyd's marine viaduct, or continental railway bridge between England and France. n.t.p. [London, 1857?] O. pp. 15. 2 *fold. plates.* P. 60.

Bradshaw's continental railway, steam navigation & conveyance guide, for the continent of Europe; containing every information connected with railways, steam navigation, and conveyances, and practical instructions for travellers. Dec., 1854; May, 1867; April, 1894. Lond., 1854-94. 3 vols. S.

Bühler, G. C. W. von. Technische und administrative Bemerkungen über die Eisenbahnen des west- und nordwestlichen Deutschlands, Belgiens und des Elsasses. Stuttgart, 1846. O. pp. iv + 320. 5 *fold. tables*, 2 *fold. plates.*

Chalmers, J. The channel railway, connecting England and France. Lond., 1861. nar. O. pp. (1) + 47. 1 *fold. chart*, 1 *fold. plate.*

Commission Internationale (La) pour la Statistique des Chemins de fer. Statistique des Chemins de fer de l'Europe, pour l'année 1882, et resultats généraux de cette statistique pour l'exercice 1883. [*German title:*] Statistik der europäischen Eisenbahnen für das Jahr 1882, nebst deren Hauptergebnissen im Jahre 1883; herausgegeben vom Präsidium der fachmännischen Commission für die internationale Eisenbahnstatistik. Vienne, 1883. Q. pp. xiii + 631.

Danube and Black Sea Railway. FORESTER, T. The Danube and the Black Sea: memoir on their junction by a railway between Tchernavoda and a free port at Kustendjie. Lond., 1857. O. pp. v + 3–226 + (1). 3 *figs.*, 1 *fold. plate*, 1 *fold. map.*

Guía general de ferrocarriles iatrocinada por la Comisión ejecutiva de las compañias y única oficial para las líneas del Norte: contiene todas las líneas de España, Portugal y principales itinerarios de Europa. Madrid, 1894. D.

Hendschel, U. Atlas des chemins de fer de l'Allemagne, de la Belgique et de l'Alsace; contenant le service complet de toute l'année, ainsi que les tarifs, règlements et ordonnances qui y ont rapport; avec les cartes spéciales des principaux chemins de fer en exploitation jusqu'à ce jour. Francfort s. M., 1844. T. pp. (235). 14 *fold. maps*, 7 *fold. tables.*
Containing: "Uebersichts-Karte der Haupt-Post-Strassen und Eisenbahnen durch Deutschland. [*French title:*] Carte des routes de poste et des chemins de fer de l'Allemagne. Size, 32.15 x 38.1 cm.

Hochsteyn, C. L. C. Commerce — travaux publics: les chemins de fer de l'Europe en exploitation, d'après les documents officiels des compagnies. Bruxelles, 1876. O. pp. xii + 431 + (2) + 155a.

Jullien, A. Notes diverses sur les chemins de fer, en Angleterre, en Belgique, et en France. Paris, 1845. O. pp. (2) + 80. P. 76.
"Extrait des *Annales des ponts et chaussées*, mars et avril, 1845."
"Relative aux dépenses qu'a nécessitées le premier établissement des grandes lignes des chemins de fer; aux tarifs admis sur les chemins de fer, et aux recettes brutes que ces tarifs ont produites; aux dépenses qu'entraînent l'exploitation et l'entretien des chemins de fer; les produits nets de quelques chemins de fer existants."

Knowles, J., *compiler.* The channel tunnel and public opinion. Lond., 1883. nar. Q. pp. (2) + v–viii + 136.

Koch, W. *and* **Optiz, C.** Eisenbahn- und Verkehrs-Atlas von Europa. Leipzig, [1894]. F.
Abtheilung I. Deutsches Reich. pp. (8) + 167. 27 *maps.* Scale, 1 : 600,000; and 1 : 200,000. Size, 25 x 38 cm.; and 25 x 45 cm.
Abtheilung II. Russland, Rumänien, Serbien, Bulgarien (Untere Donau-oder Balkanstaaten), Türkei und Griechenland. pp. (14) + 40. 28 *maps.* Scale, 1 : 2,000,000. Size, 25 x 38 cm.

Ladame, J. Chemin de fer de Calais à Milan; ligne directe par Belfort, Berne, la Gemmi et le Simplon: les grands tunnels des Alpes et du Jura. Neuchatel, Paris. O. pp. (2) + 5–291 + (1). 2 *fold. maps*, 2 *fold. profiles.*

Lavoinne, E. Notice sur les chemins de fer de Suède et de Norvége. Paris, 1874. O. pp. (2) + 5–46. 1 *fold. map.* P. 56.
"Extrait des *Annales des ponts et chaussées*, tome 8, 1874."

Lehmann's (C.) Eisenbahn-Karte der Bahngebiete Mittel-Europa's; nebst einem Verzeichniss der Eisenbahnen in Deutschland, Oesterreich-Ungarn und der Schweiz. 14e Auflage, 1893. Bearbeitet von L. T. Schultz, durchgesehen von Dr. W. Koch. Berlin, 1893. O. pp. 21. 1 *map:* Scale, 1: 2,000,000. Size, 58.3 x 72.5 cm.

Mennyey, F. *and* **Squarise, G.,** *compilers.* Elementi per una statistica generale delle strade ferrate esistenti in Italia e in altri stati d'Europa. Roma, 1880. sq. Q. pp. (4) + 296.

Nietmann, W. Atlas der Eisenbahnen Mittel-Europa's. 10e durchaus neue und verbesserte Auflage. Leipzig, 1888. F4. Scale, 1: 700,000. Size, 29 x 44 cm.
Contents:—Deutschland, pp. (4) + 18. 21 *maps.*—Oesterreich-Ungarn, pp. (4) + 11. 17 *maps.*—Frankreich, pp. (4) + 14. 15 *maps.*—Belgien, pp. (2) + 4. 1 *map.*—Niederlande, pp. (2). 1 *map.*—Italien, pp. (2) + 5. 5 *maps.*—Schweiz, pp. (4). 1 *map.*

—— Grosser Atlas der Eisenbahnen von Mittel-Europa; neu bearbeitet und vervollständigt von M. Flemming, [und] G. Merkel. 11e Auflage. Leipzig, 1892. F4. pp. (4) + 25 + (1) + 48. 22 *maps.* Scale, 1: 700,000. Size, 29 x 44 cm.
Contents:—Deutschland, (1) + 1-20; Schweiz, 21.

Oliveira, B. Notes and correspondence upon the introduction of railways into Portugal, which formed the subject of negociation between the late Count Tojal and Benjamin Oliveira, with subsequent details. Lond., 1854. O. pp. 28. P. 56.

Reichs-Kursbuch: Uebersicht der Eisenbahn- Post- und Dampfschiff-Verbindungen in Deutschland, Oesterreich-Ungarn, Schweiz; bearbeitet im Kursbureau des Reichs-Postamts. October-November 1885; April 1894. Berlin, 1885-94. 2 vols. O.

Stephenson, *Sir* **MacD.** Railways in Turkey: remarks upon the practicability and advantage of railway communication in European and Asiatic Turkey. Lond., 1859. O. pp. 96. 2 *fold. maps.*

Suedenhorst, A. *Edler* **von.** Die Eisenbahnverbindungen Central-Europas mit dem Oriente: Erörterungen für die Fortsetzung des österr.-ungarischen Eisenbahn-Netzes bis zu den Welthandelsplätzen des ägäischen und schwarzen Meeres. Wien, 1878. O. pp. (4) + 7-67. 2 *fold. maps.* P. 20.

Thomé de Gamond, A. Étude pour l'avant-projet d'un tunnel sous-marin entre l'Angleterre et la France. Paris, 1857. sq. Q. pp. (2) + 180 + (2). 3 *fold. plates.*

Winkler, E. Vereinigte Eisenbahn-Routen- und Lademass-Karte von Mittel-Europa. Ausgabe 1894. Dresden, [1894.] Scale, [*ca.* 46 klm. = in.] Size, 73 x 104 cm.
Accompanied by "Verzeichniss der Eisenbahnen 1894"; Size, 56.2 x 82 cm.

I. AUSTRO-HUNGARY.

Austria—*K. K. Handels-Ministerium.* Hauptergebnisse der oesterreichischen Eisenbahn-Statistik im Jahre 1885, 1888, 1890. Beiden Reichshälften der Monarchie gemeinsame und österreichische Eisenbahnen. Wien, 1886-91. 3 vols. O.

Austro-Hungary—*Statistisches Landesbureau.* Statistische Nachrichten über die Eisenbahnen der österreichisch-ungarischen Monarchie für das Betriebsjahr 1888. [*Magyar title:*] Statistikai közlemények az osztrák-magyar monarchia vasutairól az 1888. üzleti évre.] Wien, 1891. F4 pp. (3) + 871.

Büchelen, C. Die Tauern-Predil-Bahn und ihre Zerrbilder im Spiegel der Verstaatlichung der Südbahn betrachtet. Wien, 1890. O. pp. (2) + 5-73. 1 *fold. table,* 1 *fold. map.*

—— Zur Tauernbahnfrage; Vortrag gehalten im Salzburger Volksverein am 2. Mai 1892. Salzburg, 1892. Q. pp. 12.
Cover title.

Fillunger, J. Statistik der österreichischen Eisenbahnen. Wien, 1864. 3 columns. F. P. 20.
Extracted from *Wochenschrift für Volkswirthschaft und Statistik,* 16 Jahrg., no. 5. pp. 36-37.

—— Vergleichende statistische Zusammenstellung der Verkehrs- und Betriebs-Ergebnisse der österreichischen Eisenbahnen dann der Bauherstellungs- und Betriebseinrichtungs-Kosten. Wien, 1863. F. pp. (6) + 69 + (25). 8 *fold. tables.*

Kafka, E. Oesterreichisch-ungarische Eisenbahn-Angelegenheiten: sämmtliche österreichisch-ungarische Eisenbahnverwaltungen. Wien, 1868. D. pp. (4) + 308.

Kaiser Ferdinands-Nordbahn. Hellenbach, L. B. Die öffentliche Meinung und die Nordbahnfrage. Wien, 1884. O. pp. 15.
Cover title.

—— John, J. Die Verstaatlichung der Kaiser Ferdinands-Nordbahn: ein Beitrag zur Lösung der Rechtsfrage zwischen Staat und Nordbahn. Wien, 1884. O. pp. 40.

—— Kaiser Ferdinands-Nordbahn (Die) und die Landwirthschaft Oesterreichs: offenes Sendschreiben an die k. k. Landwirthschaftsgesellschaften. Vermehrte Auflage. Wien, 1884. O. pp. 64.
From "*Wiener Landwirthschaftliche Zeitung,* Nr. 1494 vom 27 April, 1881."

—— Mehringer,— Die Nothwendigkeit der Verstaatlichung der Kaiser Ferdinands-Nordbahn vom volkswirthschaftlichen und politisch-militärischen Standpunkte. Wien, 1883. O. pp. 12.

—— Steinwender, O. Die Nordbahnfrage. Wien, 1884. O. pp. 14. P. 78.
"Sonderabdruck aus dem. 2. Heft, Feb. 1884, der *Deutschen Worte.*"

Kupka, P. Die Eisenbahnen Oesterreich-Ungarns, 1822–1867. Leipzig, 1888. O. pp. (8) + 386.

Nietmann, W. Verkehrs- und Eisenbahn-Atlas der oesterreichisch-ungarischen Monarchie. 10e Auflage. Leipzig, 1887. F⁴. pp. (4) + 11. 16 *maps.* Scale, 1: 700,000. Size, 29 x 44 cm.

Oesterreichische Nordwestbahn. Bericht über den Bau und den Bestand der k. k. priv. oesterreichischen Nordwestbahn, mit Bezug auf die im eigenen Pavillon ausgestellten Gegentände, Pläne und statistischen Ausweise. Wiener Weltausstellung, 1873. Gruppe xiii und xviii. Wien, 1873. F. pp. xvi + 181. 17 *plates,* 3 *fold. plates,* 1 *fold. map.*

Prochaska's Eisenbahn-Karte von Oesterreich-Ungarn, für 1895. Vergrösserte, 64e Auflage. Wien, [1895]. Scale, 1: 1,500,000. Size, 72.2 x 117 cm.

Uebersichtskarte der Eisenbahnen der österreichisch-ungarischen Monarchie, nebst den angrenzenden auswärtigen Landestheilen; herausgegeben im Auftrage des k. k. Handelsministers von der k. k. General-Inspection der österr. Eisenbahnen. Erneuerte Ausgabe. [Wien, 1895]. 6 parts. Scale, [3.61 m. = in.], 1: 100,000. Size, 117 x 172.7 cm.

Weichs, F., *Freiherr* **von.** 50 Jahre Eisenbahn: Denkschrift zum 50 jährigen Jubiläum der locomotiv-Eisenbahn in Oesterreich-Ungarn. Wien, 1888. O. pp. (1) + 42. P. 82.

II. BELGIUM.

Belgium — *Ministère des Travaux Publics.* Enquête relatif à la demande en concession d'un chemin de fer partant de Courtray sur la Lys et aboutissant à Bossuyt sur l'Escaut; formée par la Compagnie des chemins de fer de la Flandre occidentale. Arrêté ministériel du 31 déc., 1845. Compte-rendu de la séance de la Commission d'enquête du 17 mars, 1846. n.p., n.d. 2 pts. in 1 vol. nar. F. pp. 61. 1 *fold. map.*

Carte officielle des chemins de fer de la Belgique au 31 décembre, 1893. n.p., [1894]. Scale, 1 : 400,000. Size, 67.8 x 88.15 cm.

Dendre Valley Railway and Canal Company. Directors' report to the shareholders. [Lond., 1845.] O.

—— Report of the directors [to the shareholders.] [Lond., 1846.] F⁴.

—— Report presented by the directors to the first annual meeting of shareholders, held in Brussels on 31st July, and by adjournment on 7th August, 1847. [Lond., 1847]. O.

—— *Same, French.* Bruxelles, 1847. O.

—— Arrêté de concession et status: [Société anonyme du Chemin de fer et du canal de la vallée de la Dendre.] Bruxelles, 1846. O. pp. (2) + 42.

—— Prospectus. n.t.p. [Lond., 1845.] F⁴. pp. 3.

Garella, N. Notes sur les chemins de fer belges. Paris, 1843. nar. O. pp. (2) + 5–48. 5 *fold. plates.* P. 56.
"Extrait des *Annales des ponts et chaussées.*"

Great Luxemburg Railway. [Report of the president] to the shareholders, [15th Dec., 1854.] n.t.p. [Lond., 1854.] O.
This, and four following titles, in vol. "Great Luxemburg railway. Pamphlets. 1."

—— Report presented to the shareholders [by the directors,] 14th July, 1846. [Lond.,] 1846. O.

—— Belgium. Statuts, cahier des charges, &c., de la Grand compagnie du Luxembourg. [*English title:*] Statutes, cahier des charges, &c. of the Great Luxemburg company. [Lond., 1846.] O. pp. 73.

—— Lyall, C. A letter to the shareholders of the Great Luxembourg railway. Lond., 1854. O. pp. 18.

—— [Masterman, J., *jr.*] A reply to Charles Lyall's letter to the shareholders of the Great Luxembourg company. [Lond., 1854.] O. pp. 12.

Kohl, E. Das fünfzigjährige Jubiläum der belgischen Eisenbahnen und der damit verbundene internationale Eisenbahn-Congress in Brüssel im August 1885. Leipzig, 1886. O. pp. 69. 1 *fig.,* 1 *fold. table.*
"Separat-Abdruck aus dem *Civilingenieur.*" At this time was founded the **Congrès Internationale des Chemins de fer,** which see, under **Periodicals and Transactions.**

Mavaut, O. Des ports et chemins de fer de la Belgique au point de vue des transports internationaux. Bruxelles, Liége, 1887. O. pp. 50. 1 *fold. map.* P. 84.

Namur and Liége Railway. Report of the directors to the shareholders, at the first general meeting, 17th March, 1846. Lond., 1846. Q. P. 14.

Sambre and Meuse Railway. [Prospectus.] [Lond., 1845]. O. pp. 14. 2 *fold. maps.*

III. FRANCE.

À quoi serviront les chemins de fer: question examiner entre les deux sessions. Paris, 1839. D. pp. 54. P. 63.
"Extraits du *Moniteur industriel.*"

Alcock, — Chemins de fer: d'une grande ligne centrale par la vallée de la Loire, offrant pour avantages: 1°, grande communication des deux mers; 2°, grande ligne stratégique; 3°, im-

mense circulation intérieure; 4°, justice distributive; 5°, économie facilité d'exécution. Paris, 1842. O. pp. (2) + 5–54. P. 12.

Arles — *Conseil Municipal.* Comparaison du tracé par la vallée de la Durance, et du tracé par la vallée du Rhône. Arles, 1842. O. pp. (2) + 77. 3 *fold. tables.* P. 13.

Arnollet, — Ce que doivent être les chemins de fer en France, et tableaux de la locomotion sur les chemins de fer; précédés d'une notice explicative sur la grande ligne de Marseille au Havre. Paris, 1835. sq. Q. pp. (3) + 71 + 56.

Avignon—*Conseil Municipal.* Mémoire sur le chemin de fer de Marseille à Avignon, rédigé par la commission nommée par le Conseil Municipal. Avignon, [1842]. nar. O. pp. 74. 1 *fold. plate.* P. 13.

[B——, J. A.] Quelques réflexions sur le chemin de fer que l'on se propose d' exécuter de Strasbourg à Hommarting; par un ancien officier de l' arme du génie. n.t.p. [Hagnenau, 1845]. nar. O. pp. 16. P. 12.

Baïhaut, C. La question des chemins de fer. Paris, 1882. O. pp. 46. P. 63.
"*République française*, nos. des 7-11. Janvier, 1882."

Barbaud, R. Voies et moyens de communication en France, en Algérie et en Tunisie: routes, voies navigables, chemins de fer, bureaux ambulants, paquebots, lignes télégraphiques. Paris, 1886–87. 2 vols. bd. in 1. T. pp. (2) + 5–128; 127 + (1). (Petite bibliothèque de l'armée française.)

Besançon—*Chambre de Commerce.* Nécessité, pour conserver le transit de l'Allemagne et de la Suisse, d'exécuter le chemin de fer de Dijon à Mulhouse par Besançon. Besançon, 1844. Q. pp. 18.
"Extrait du *Registre des délibérations de la Chambre de Commerce de Besançon*, séance du 27 mars 1844."
In vol. "Chemin de fer Dijon à Mulhouse. Pamphlets. 1."

Bonnardet, L. Chemin de fer de Paris à Marseille. De la traversée de Lyon. Mémoire lu à l'Académie dans sa séance du 20 septembre 1845, et imprimé par son ordre. Lyon, 1845. O. pp. (2) + 120. P. 13.

Boulay, — Discours dans la discussion du projet de loi relatif à l'établissement de grandes lignes de chemins de fer. [Chambre des Députés:] séance du 30 avril, 1842. [Paris, 1842.] O. pp. 32. P. 17.

Boulogne-Amiens. To the Mayor, the Municipal Council, and the Chamber of Commerce of Boulogne-sur-mer: a report on the best line of railway communication between Boulogne and Amiens; by W. Cubitt. [*French title:*] Rapport à M. le Maire, au Conseil Municipal et à la Chambre de Commerce de Boulogne-sur-mer, sur la meilleure ligne de chemin de fer entre Boulogne et Amiens. Lond., 1843. nar. O. pp. 19. 1 *fold. map.* P. 14.
English and French parallel versions throughout.

Brunfaut, J. Étude sur les voies de transport en France. Paris, 1876. nar. Q. pp. (2) + 627.
Contents: — Des routes.—Des voies navigables.—Des chemins de fer.—Construction des chemins de fer.—Exploitation.—Mouvement.—Des recettes et des dépenses.

Carte des chemins de fer français au 1er Janvier 1884; publiée par la *Revue générale des chemins de fer.* [Paris, 1884]. Scale, [38.71 klm. = in.], 1 : 1,500,000. Size, 66.7 x 83.3 cm.
Environs de Paris, scale, 1:300,000. Size, 17.8 x 17.8 cm.

Casimir, P. Aperçu sur la question d'un chemin de fer de Niort à Marans. Niort, [1863.] O. pp. (1) + 5–28. P. 75.

Cazeneuve, A. Les chemins de fer français. Paris, 1877. O. pp. 16. P. 16.

Centre, Chemin de fer du. Chemin de fer du Centre par la rive droite de l'Allier: [rapport de la sous-commission d'enquête, 29 jan., 1846.] Moulins, 1846. O. pp. 84. 1 *fold. map.* P. 12.
Cover title.

Chappet, P. Des avantages et des inconvénients des chemins de fer pour la ville de Lyon. Lyon, 1845. O. pp. (2) + 59. P. 12.
"Mémoire qui a obtenu une médaille d'encouragement de l'Académie de Lyon."

Chérot, A. Les grandes compagnies de chemins de fer en 1877: dangers politiques et économiques de leur extension; système de chemins de fer régionaux; les excès du monopole et les droits de l'état; le rachat des concessions. Paris, 1877. O. pp. (3) + 7–66 + (1). P. 15.

Collignon, C. Chemin de fer de Paris à Strasbourg: en réponse à Kœchlin, pour faire suite au rapport publié par le Conseil Municipal de Nancy, sur le tracé du chemin de fer de Paris à Strasbourg. Nancy, 1842. nar. O. pp. 39. P. 12.

Colomès de Juillan, — Considérations générales sur les chemins de fer, suivies de leur application à la ligne de Paris sur le centre de la France, et à son prolongement vers le centre de la péninsule. Paris, 1845. sq. Q. pp. viii + 162 + (1). 1 *fold. map,* 1 *fold. table.*

Delavau, — Mémoire sur un projet de chemin de fer de Marseille à Lyon, et considérations générales sur ce nouveau mode de transport. Paris, 1835. nar. O. pp. (2) + 5–71. 1 *fold. table.* P. 12.

Dubus, F. Les chemins de fer devant les pouvoirs publics. Paris, 1877, Q. pp. (3) + 7–63. P. 17.
Pp. 57-63 contain "Note sur l'intervention de l'état et des départements pour aider les petites compagnies de chemins de fer," by E. Debains.

Flachat, E. Les chemins de fer en 1862 et en 1863. Paris, 1863. O. pp. (2) + 304. 6 *fold. plates.*
Contents:—Les chemins de fer devant l'enquête et devant

les conventions pour l'extension du réseau.—Rapport de E. Flachat, membre du jury, sur les machines locomotives.—Notice sur les trois types de locomotives exposées par la compagnie du chemin de fer du Nord, par Jules Pétiet.—Rapport de M. Perdonnet, membre du jury, sur le matériel fixe des chemins de fer et sur le matériel roulant autre que les locomotives.

Fournel, H. Du chemin de fer du Havre à Marseille par la vallée de la Marne. Première publication. Paris, 1833. O. pp. (2) + 5–31. 1 *fold. map.*

—— Mémoire sur le chemin de fer de Gray à Verdun, communiqué aux maîtres de forges du département de la Haute-Marne, le 2 août, 1829. Paris, 1831. O. pp. (2) + 5–63 + (1). 1 *fold. map.*

"Extrait de la Revue encyclopédique, 1832."

France—*Bureau de la Statistique centrale des Chemins de fer.* Chemins de fer français: situation au 31 décembre 1877, longueurs et territoire desservi. Paris, 1878. sq. Q. pp. 341. 1 *fold. map.*

Contains, "Formation chronologique, par compagnie, du réseau d'intérêt général exploité, 1828-77."; "Relevé des compagnies d'intérêt général par ordre alphabétique," etc.

—— —*Chambre des Députés—Session* 1845. Projet de loi relatif à la concession du chemin de fer de Dijon à Mulhouse et de l'embranchement de Gray sur Besançon; précédé de l'exposé des motifs, présenté par M. le Ministre secrétaire d'état au Département des travaux publics, séance du 2 juin, 1845. n.t.p. [Paris, 1845]. Q. pp. 94. 1 *fold. map.*

In vol. "Chemin de fer Dijon à Mulhouse. Pamphlets. 1."

—— —*Session* 1846. Supplément au rapport fait au nom de la commission chargée d' examiner le projet de loi relatif aux chemins de fer de l' Ouest, par M. Lacrosse. n.t.p. [Paris, 1846.] O. pp. 135.

In vol. "Chemins de fer de l' Ouest."

—— —*Direction Générale des Ponts et Chaussées et des Chemins de fer.* Chemins de fer français. Situation approximative au 31 décembre, 1860. [Paris, 1860]. nar. O. pp. (21). P. 75.

—— —*Direction des Chemins de fer.* Statistique des chemins de fer français, 1876–1885; au décembre, 1890–1892. Paris, 1879–94. 13 vols. bd. in 7. F.

1876 to 1885 the title is "Documents statistiques relatifs à l' année 1876-1885."

1880-1885 were issued 2 pts. to each vol: "1e pte, Lignes d' intérêt général; 2e pte, Lignes d' intérêt local.—Résumé des deux parties."

1890-1892. 3 pts. to each vol: "Documents principaux; Documents divers. 1e pte. France, intérêt général; Documents divers, 2e pte. France, intérêt local. Algérie et Tunisie."

2e pte. for 1885 lacking.

—— —*Ministère des Travaux Publics, de l'Agriculture et du Commerce.* The cahier des charges; or, book of conditions, annexed to the lease for the working of the Orleans and Bordeaux railway. Translated from the French, with a notice, by W. Page Smith. [Lond., 1844.] Q. pp. ix + 18. 1 *fold. map.* M. 10.

—— Mémoire sur le projet d'un chemin de fer de Paris à Rouen, au Havre et à Dieppe, par M. Defontaine. Paris, 1837. Q. pp. (3) + 254. 1 *fold. table,* 2 *fold. profiles,* 1 *fold. map.*

—— Projets de chemins de fer: de Paris à Rennes; de Paris à Caen et Cherbourg; et de Caen à Alençon, au Mans et à la Loire. Rapport par M. le Baron de Condé. [Paris, 1846.] O. pp. 104. 1 *fold. map.*

In vol. "Chemins de fer de l'Ouest."

Grenoble —*Conseil Municipal.* Délibération du Conseil Municipal concernant la direction du chemin de fer d'embranchement de Grenoble, prise sur le rapport fait au nom d'une commission spéciale, par M. Crozet. Grenoble, 1845. O. pp. 58 + 6. P. 76.

With "Réponse du rapporteur à des observations qui lui ont été faites."

Grosseteste, W. Chemin de fer de Mulhouse à Thann, inauguré le 1er septembre, 1839; notes et documents présentés à la Société industrielle, le 25 septembre, 1889. Mulhouse, 1889. Q. pp. (2) + viii + 159. 4 *figs.*, 2 *maps*, 10 *plates*, 3 *photos.*

[H., A.] Réponse à la notice de M. Robinot sur le réseau des chemins de fer à exécuter dans l'ouest de la France. Paris, 1846. O. pp. 15. P. 15.

Signed "A. H. auditeur au Conseil d'État."

Ham, É de. Étude sur le chemin de fer d'Alais au Rhône. Paris, 1855. nar. O. pp. (2) + 84. P. 13.

Jura (*Département*)—*Conseil Général.* Projet d'un chemin de fer de Lons-le-Saunier à Chalons-sur-Saône. Séance du 3 sept. 1840. [Rapport présenté par J. Cordier, député du Jura.] n.t.p. [Paris? 1841?] sq. Q. pp. 63 + (1). M. 10.

Jouhaud, P. Les chemins de fer et les postes, dans leurs rapports comparés de progrès et de conservation, en France et à l'étranger. Paris, 1841. O. pp. (2) + 82. 1 *fold. map.* P. 75.

La Cornillère de Narbonne, P. de. Mémoire sur le projet de chemin de fer de Paris à Triel. Paris, 1865. O. pp. (4) + 7–29. 1 *fold. plan.* P. 75.

—— Nouveau mémoire à l'appui des projets de chemins de fer de Seine-et-Oise: Paris à Triel, Paris à Luzarches, Paris à Ecouen (ligne circulaire). Paris, 1867. O pp. iv + 5–37. P. 75.

Le Graverend, — Notes sur les routes et sur le roulage. Paris, 1833. O. pp. 11. P. 63.

Ligue du Centre ouest. Le septième réseau. [Nantes, 1876.] broadside. P. 16.

"Extrait du *Phare de la Loire*, du 17 octobre, 1876." signed "Ligue du Centre ouest."

Livret-Chaix: guide officiel des voyageurs sur tous les chemins de fer français. 49e année, avril 1894. Paris, [1894.] S.

Lucas, F. Exposition universelle à Vienne en 1873: étude historique et statistique sur les voies de communication de la France, d'après les documents officiels. Paris, 1873. O. pp. (3) + 231.

Lyon. Pétition de la ville de Lyon, à la Chambre des Députés, pour obtenir la construction immédiate du chemin de fer de Châlon à Lyon. n.t.p. [Lyon, 1850?] nar. F.[4] pp. (3). P. 12.

Marne (*Département*)—*Conseil Général.* Mémoire en faveur du chemin de fer direct de Paris à Strasbourg par la vallée de la Marne; présenté au gouvernement et aux chambres, en exécution de la délibération du Département de la Marne, du 23 déc., 1841. Châlons-sur-Marne, 1842. O. pp. (2) + 140. 1 *fold. profile.* P. 76.

Marseille au Rhône, Chemin de fer de. Nouvelles considérations en faveur du tracé direct de Marseille à Avignon, par M. Lancon; et réfutation des objections faites à ce tracé, par M. de Montricher. Batignolles, 1842. nar. Q. pp. 55. M. 10.

—— Tracé direct de Marseille à Avignon, étudié par M. de Kermaingant; et modifié par M. de Montricher. Considérations en faveur de ce tracé, par M. Lançon. Paris, 1841. sq. Q. pp. 32. M. 10.

—— Tracé par la valée du Rhône; exposé pour le conseil des ponts-et-chaussées. Nismes, 1842. O. pp. 45 + (2). 1 *fold. map*, 2 *fold. profiles.* P. 13.
Signed by Paulin Talabot and C. Didion. Cover title.

Martha-Béker, F., *comte de* Mons. Rapport et délibération de la Commission d'enquête du Puy-de-Dome, sur les tracés comparatifs du chemin de fer de Paris à Clermont, entre le Bec-d'Allier et Moulins. Clermont-Ferrand, 1846. nar. O. pp. (1) + 5–41. 1 *fold. map.* P. 13.

Michaut-Delacroix, V. Aux Chambres: chemins de fer; considérations générales [sur le réseau parisien, ou la base essentielle, et ses suites de rayonnements indispensables.] Chatillon-sur-Seine, 1844. nar. O. pp. (2) + 5–16. 1 *fold. plate.* P. 63.

Midi, Chemins der fer du. Assemblée général des actionnaires du 27 avril, 1864: rapport du Conseil d'administration; resolutions de l'Assemblée générale. Paris, 1864. sq. Q.
This, and four following titles, in vol. "Chemins de fer du Midi. Pamphlets. 1."

—— Chemin de fer littoral de Cette à Marseille; extraits de diverses délibérations. Paris, 1862. sq. Q. pp. 48.

—— Chemin de fer littoral de Cette à Marseille; première réponse aux observations de la compagnie de Paris à Lyon et à la Méditerranée. Paris, 1862. sq. Q. pp. 25.
Dated, "le 27 janvier 1862."

—— Lettre à S. Ex. M. le Ministre des travaux publics, en réponse aux observations de la compagnie de Paris à Lyon et à la Méditerranée. Paris, 1862. sq. Q. pp. (1) + 24.
Concerning "Chemin de fer de Cette à Marseille." Letter dated "le 24 avril, 1862."

—— Projet d'un chemin de fer littoral de Cette à Marseille. Paris, 1862. sq. Q. pp. 56. 1 *fold. map*, 1 *fold. profile.*

Milleret, J. De l'établissement des chemins de fer en France; cinquième et dernière publication: de plusieurs économies à opérer, soit immédiatement, soit dans un avenir peu éloigné. Paris, 1845. O. pp. 72. P. 17.

Mondétour, B. de. Mémoire sur cette question: des différentes voies de communication qu'on peut établir entre Vitry et Gray; quelle est celle qui servira le mieux le commerce général du royaume et l'industrie locale? Paris, 1846. Q. pp. (2) + iv + 86. M. 10.

Monnier, I., *and others.* Examen de la question des chemins de fer en ce qui concerne leur arrivée dans Lyon. Lyon, 1845. nar. O. pp. 15. P. 12.
"Cette notice a été rédigée par une commission choisie dans le sein du Conseil municipal de Vaise, et composée de: MM. Ivan Monnier, adjoint, Bonenfant, Burnet, Champeaux, Giraud, Guichannet et Mouraud."

Nord, Chemin de fer du. Expositions et concours organisés par la Société Académique de Saint-Quentin à l'occasion de l'inauguration du chemin de fer [qui relie la ville de Saint-Quentin à la ligne du Nord] et de la visite du Président de la république à Saint-Quentin. Saint-Quentin, 1850. O. pp. (4) + 7–128. P. 14.
"*Annales agricoles, scientifiques et industrielles du Département de l'Aisne.* 2e série, 8e tome, juin-août, 1850."

—— Northern of France railway, from Paris to Valenciennes, Lille, Calais and Dunkirk: rules and regulations, 22nd Feb., 1845; modifications in rules and regulations, 3rd April, 1845; translated by A. de Pinna. Lond., 1845. O. pp. 34. P. 12.
Sir John Rennie's copy.

—— Rapport, présenté au nom du Conseil d'administration par Emile Péreire (à l'assemblée générale ordinaire et extraordinaire du 3 avril, 1852.) [Paris,] 1852. Q. pp. 55. M. 10.

—— Report: Northern of France railway and from Creil to Saint Quentin; translated from the French by A. de Pinna. Lond., 1845. O. pp. 58. P. 12.

Normand, Ch. Note sur les résultats économiques de l'exploitation du chemin de fer de Perpignan à Prades. Paris, 1876. O. pp. 11. P. 75.
"Extraits des *Annales des ponts et chaussées*, 1876."

Observations sur le projet de l'embranchement de Grenoble au chemin de fer de Lyon à Avignon. Paris, 1845. sq. Q. pp. 10. M. 10.
Cover title.

Parandier, A. N. Chemin de fer de Mulhouse à Dijon par Besançon. [Calcul des bases financières du projet.] Besançon, 1841. sq. Q. pp. 8. 1 *fold. table.*
Cover title. This and next following in vol. "Chemin de fer Dijon à Mulhouse. Pamphlets. 1."

—— Chemin de fer de Mulhouse à Dijon par Besançon. Mémoire sur l'ensemble du projet. Besançon, 1841. sq. Q. pp. 50.
Cover title.

Paris-Lyon. ARNOLLET, — Chemin de fer de Paris à Lyon: opposition au projet partiel de Montereau à Châlon, proposé par un comité que préside M. le Marquis de Louvois; et discussion devant la commission d'enquête de Dijon. Dijon, 1841. O. pp. 83. P. 12.
Cover title.

—— BRUCHET, H. Projet de chemin de fer de Paris à Lyon, par la Bourgogne: ligne du Serein; notes présentées aux commissions chargées d'examiner les différens projets de chemins de fer et particulièrement celui de Paris à Lyon. 8e publication. Paris, 1843. sq. Q. pp. 20. 5 *fold. tables*, 3 *fold. profiles.*
Cover title. In vol. "Chemin de fer Paris à Lyon. Pamphlets. 1."

—— CHEMIN de fer de Lyon dans sa partie comprise entre Paris et Melun: la ville de Paris, l'arrondissement de Melun, et tous les grands centres de population de la ligne de Lyon; à M. le Ministre des travaux publics, [etc.] n.t.p. [Paris, 1845?] sq. Q. pp. 32.

—— CHEMIN de fer de Paris à Lyon: des motifs de droit qui s'opposent à l'établissement de gares nouvelles sur la rive droite de la Seine, en concurrence avec les gares de la compagnie d'Orléans entre Paris et Corbeil. n.t.p. [Paris, 1845?] sq. Q. pp. 10.

—— EXAMEN critique du nouveau projet de loi et du nouveau tracé par le plateau de La Brie, proposés en 1845 contrairement à la loi du 26 juillet 1844 qui a décidé le chemin par la vallée de la Seine; extraits textuels de la loi du 26 juillet 1844. [Paris, 1845?] sq. Q. pp. (5) + 48 + 18 + (1).
In vol. "Chemin de fer Paris à Lyon. Pamphlets. 1."

—— LOUVOIS, *le marquis de.* Notes sur les projets de chemin de fer de Paris à Lyon. n.t.p. [Paris, 1844?] sq. Q. pp. 4+7.

—— MÉMOIRE des habitants, propriétaires d'usines, négociants et manufacturiers de Corbeil, de la vallée de l'Essonnes, et de la rive gauche de la vallée de la Seine, à M. le Ministre des travaux publics, à l'appui de leurs pétitions et demandes tendant à ce que le chemin de fer de Paris à Lyon suive la vallée de la Seine en passant par Corbeil. [Corbeil, 1845.] sq. Q. pp. 13 + (1).
In vol. "Chemin de fer de Paris à Lyon. Pamphlets. 1."

—— PARIS—12e *Arrondissement.* À messieurs les membres de la Chambre de Paris et de la Chambre des Députés: réclamation des habitants du douzième arrondissement de Paris, contre un projet qui tend à enlever le point de départ du chemin de fer de Paris à Lyon, à la rive gauche de la Seine. Paris, 1844. sq. Q. pp. 12.

Paris-Lyon-Méditerranée. Annuaire du personnel de la construction, pour 1895. 19e année. Paris, [1894.] O. pp. 39.

—— RAILWAY (Le); horaire synoptique des chemins de fer. P.-L.-M. [Paris-Lyon-Méditerranée,] et lignes d' intérêt local y attenant. 32e année, no. 10. Nice, 1895. Q.

Paris-Lyon-Strasbourg. Projet présentant une économie de 140 millions sur les autres tracés proposés. Neufchateau, 1842. nar. O. pp. 8. P. 12.
Cover title.

Paris-Pontoise-Juvisy. Grand jonction des réseaux du Nord, de l' Ouest, d' Orléans et de Lyon, avec pénétration dans Paris à la place de la Concorde. Paris, 1868. sq. Q. pp. 22 + (2). 1 *plan.* M. 10.

Picard, A. Les chemins de fer français; étude historique sur la constitution et le régime du réseau; débats parlementaires, actes législatifs, réglementaires, administratifs, etc. Paris, 1884–85. 6 vols. O. pp. (7) + 795; (4) + 584; (4) + 752; (3) + 1031. 1 *fold. map;* (4) + 824; (4) + 849. 1 *fold. map.*
Contents:—**1.** Au 2 déc., 1851.—**2.** 2 déc., 1851—4 sept., 1870.—**3.** 4 sept., 1870 au classement de 1879.—**4.** Documents annexes, lois, règlements, conventions, tableaux statistiques.—**5.** 19 juillet, 1879—20 nov., 1883; conventions de 1883 (première partie).—**6.** 19 juillet 1879—20 nov., 1883; conventions de 1883 (suite et fin).—Documents annexes, lois, règlements, conventions, tableaux statistiques.
"Publié sous les auspices du Ministre des travaux publics."

Pommier, A. Le chemin de fer de Lyon, et la compagnie du chemin de fer d' Orléans; considérations présentées à M. le Ministre des travaux publics, au nom des principales communes des cantons de Brie et de Tournan (Seine-et-Marne.) Paris, 1841. O. pp. (3) + 7–41. P. 12.

St.-Étienne-Lyon. [SEGUIN,—] Mémoire sur le chemin de fer de St.-Étienne à Lyon, par Saint-Chamond, Rive-de-Gier et Givors. Paris, 1826. sq. Q. pp. (1) + 28. 1 *fold. plan.*

Sleeping-car (Le): guide officiel de la c[ompagn]ie int[ernationa]le des wagon-lits et des grands express européens; service d'été 1889. [Paris, 1889.] nar. O.

Tavernier, R. Considérations économiques sur les chemins de fer français; de l'exploitation locale des grandes compagnies et de la nécessité

de réformes décentralisatrices. Paris, 1888. O. pp. (2) + 47. 3 *fold. plates.* P. 76.
"Extrait des *Annales des ponts et chaussées*, avril, 1888."

Vautheleret, *le baron de.* Les anciennes voies romaines et leur corrélation avec nos grandes lignes ferrées actuelles; communication faite au Congrès des sociétés savantes a la Sorbonne le 2 mai 1887. Paris, 1887. O. pp. 18. P. 84.

IV. GERMANY.

Altona-Kiel. Geschäfts-Bericht über die unter Verwaltung der Altona-Kieler Eisenbahn stehenden schleswigschen Eisenbahnen für das Jahr 1871, 1872. Altona, 1872–73. 2 vols. sq. Q.

Baden — *Staatseisenbahnen.* 12.—24. Nachweisung über den Betrieb für 1852–1864. Karlsruhe, 1853–66. 13 vols. bd. in 2. sq. Q.
21.-24. Nachweisung "und der unter Staatsverwaltung stehenden badischen Privateisenbahnen."

—— Tabelle der Entfernungen zwischen den Stationen nach der Bahnlinie gemessen und in geographischen Meilen ausgedrückt. n.p., n.d. broadside. obl. F[1]. P. 19.

Bavaria — *Staatseisenbahnen.* Status der Assistenten: Categorie B ii. n.p., n.d. [1888?] O. pp. (30).

—— Status der Beamten der Bauabtheilung: Categorie B i. n.p., n.d. [1888?] O. pp. (6).

—— Status der Expeditoren: Categorie B i. n.p., n.d. [1888?] O. pp. (52).

—— Status der Ingenieur-Assistenten, maschinen-technischen Assistenten, Obermaschinisten: Categorie B i. n.p., n.d. [1888?] O. pp. (6).

—— Status der Ober-Expeditoren: Categorie A v. n.p., n.d. [1888?] O. pp. 16.

—— Wehrmann, O. Die bayrischen Staatseisenbahnen: eine gedrängte Skizze der gegenwärtigen Verhältnisse derselben. Munchen, 1893. O. pp. 44 + (1).

Bedeutung (Die) der Häfen am adriatischen Meere und deren Einfluss auf den internationalen Verkehr der deutschen Eisenbahnen. Ulm, [1875?] D. pp. 8. P. 18.

Bluhm, J. G. Fünfzig Jahre Eisenbahn in Preussen; eine statistische Darstellung der Entwicklung des Bahnnetzes und des Verkehrs, sowie der Ergebnisse des Betriebes der preussischen Bahnen. Berlin, [1888.] O. pp. (5) + 61 + (5). 2 *fold. tables.* P. 82.

Breslau-Schweidnitz-Freiburg. 1–11. Jahres-Bericht des Direktorii über den Fortgang des Unternehmens im Jahre vom April 1842 bis dahin 1843; über das Verwaltungs-Jahr vom April 1843–betreffend das Verwaltungsjahr 1852; vorgetragen in der General-Versammlung der Herren Aktionaire am 28 April, 1843–19 April, 1853. Breslau, [1843–53.] 11 vols. bd. in 1. sq. O.

Eisenach-Eschwege. Das Eisenbahnprojekt Eisenach-Eschwege; eine Denkschrift zur Würdigung von dessen Bedeutung und Ausführbarkeit. Eisenach, [1883.] D. pp. (1) + 39 + (4). 1 *fold. map,* 2 *fold. tables.*

Germany—*Kaiserliche General-Direction der Eisenbahnen in Elsass-Lothringen.* Bericht über die Verwaltung der Eisenbahnen in Elsass-Lothringen und Luxemburg im Jahre 1872–74, '83/84. Strassburg, 1873–84. 4 vols. F.

[—— — *Kaiserliches Statistisches Amt.*] Zur Eisenbahn- und Bevölkerungs-Statistik der deutschen Städte, für die Periode 1867 bis 1880. n.t.p. [Berlin, 1884.] sq. F. pp. 49.

Hagen, R. Die erste deutsche Eisenbahn mit Dampfbetrieb zwischen Nürnberg und Furth; Gedenkschrift zu deren fünfzig-jährigem Jubiläum am 7. Dezember 1885. Nürnberg, [1886.] O. pp. vi + 250. 1 *plate,* 5 *photos.*

Hannover. Nachweisung über den Bau und Betrieb der unter hannoverscher Verwaltung stehenden Eisenbahnen während des Rechnungsjahres vom 1 Juli 1850 bis dahin 1865. Hannover, 1851?–66. 15 vols. bd. in 1. Q.

—— — *Königliche Eisenbahn-Direction.* Nachweisung über den Bau und Betrieb der unter Verwaltung der königl. Eisenbahn-Direction zu Hannover stehenden Eisenbahnen während des Rechnungsjahres vom 1 Juli 1865 bis dahin 1866, für 1866, '67. Hannover, 1867–68. 3 vols. Q.

—— Jahres-Bericht über die Betriebs-Verwaltung der hannoverschen Staatseisenbahn pro 1868–1874. Hannover, 1868–75. 7 vols. bd in 6. sq. Q. and F.

—— Nachtrag zum Jahres-Bericht pro 1870–1874, enthaltend: Statistische Uebersicht des Güter-Verkehrs nach Waaren-Gattungen. Hannover, 1871–75. 5 vols. sq. Q. and F.
Bound with "Jahres-Bericht" for same years.

Kollmann, P. Statistischer Ueberblick über die Eisenbahnen Deutschlands, insbesondere während der Betriebsperiode 1880–81. n.t.p. O. pp. (75). P. 18.

Krause, R. Friedrich List und die erste grosse Eisenbahn Deutschlands; ein Beitrag zur Eisenbahngeschichte. Leipzig, 1887. O. pp. 32. 2 *figs.*

Kühn, E. Die historische Entwickelung des deutschen und deutsch-oesterreichischen Eisenbahn-Netzes vom Jahre 1838 bis 1881. Berlin, 1882–83. sq. F. pp. (3) + v-xxii + 180, and *Atlas of* 45 *maps.* obl. F.
"XII. Ergänzungsheft z. *Zeitschrift d. königl. preuss. statistischen Bureaus.*"

Lasker, — Rede gegen Wagener und über

das Eisenbahnkonzessionswesen in Preussen, gehalten im Abgeordneten-Hause am 7. Februar, 1873; nebst dem Briefe des Ministerpräsidenten. Berlin, 1873. D. pp. 80. P. 18.

Lübeck-Büchen. 4, 6, 7, 9, 11–14, 16–20, 22–24. Jahresbericht der Direction, für das Jahr 1853, '55, '56, '58, '60–63, '65–69, '71–73. Lübeck, 1854–74. 16 vols. sq. Q.

Lutz, K. Der Bau der bayerischen Eisenbahnen rechts des Rheines, bearbeitet mit Benutzung amtlicher Quellen. München, Leipzig, 1883. O. pp. x + 502 + (1). 1 *fold. map.*

Magdeburg-Cöthen-Halle-Leipzig. Geschafts-Bericht des Directoriums für das Jahr 1852–65, '67–70, '72–73. Magdeburg, [1853]–74. 20 vols. bd. in 2. sq. Q.

Mayer, A. von. Geschichte und Geographie der deutschen Eisenbahnen von ihrer Entstehung bis auf die Gegenwart, 1890. Berlin, 1891. 4 pts. in 2 vols. O. pp. xvi + (1) + 532; pp. (4) + 535–1374. 9 *fold. tables.*

Michaelis, J. Deutschlands Eisenbahnen; ein Handbuch fur Geschäftsleute, Capitalisten und Speculanten, enthaltend Geschichte und Beschreibung der Eisenbahnen, deren Verfassung, Anlagecapital, Frequenz, Einnahme, Rentabilität und Reservefonds. Leipzig, 1859. D. pp. (1) + v-xxxviii + 418 + 67 + (1). 1 *fold. map.*

Morlok, G. von. Die königlich württembergischen Staatseisenbahnen; Rückschau auf deren Erbauung während der Jahre 1835–1889 unter Berücksichtigung ihrer geschichtlichen, technischen und finanziellen Momente und Ergebnisse. Stuttgart, Leipzig, Berlin, Wien, 1890. F. pp. viii + 234. 55 *cts.*, 1 *map.*

Oldenburg—*Eisenbahn-Direction.* Die Entstehung und Entwicklung der Eisenbahnen im Herzogthum Oldenburg bis zum Jahre 1878; Denkschrift. Oldenburg, 1878. nar. O. pp. viii + 339 + (1). 1 *fold. map.*

Prussia — *Königliche Direction der Niederschlesisch-Märkischen Eisenbahn.* Bericht uber die Verwaltung der k. niederschlesisch-märkischen Eisenbahn und der k. Bahnhofs-Verbindungsbahn zu Berlin, 1858–76; fur das Jahr 1877/78. Berlin, 1859–78. 20 vols. bd. in 10. sq. Q. and F.

—— Nachtrag zum Bericht uber die Verwaltung im Jahre 1867–74: Zusammenstellung des Guterverkehrs in Waaren-Gattungen nach und von einzelnen Stationen und fremden Eisenbahnen. Berlin, 1868–75. 8 vols. F.
Bound with "Bericht" for same years.

—— — *Königliches Statistisches Bureau.* Die preussischen Eisenbahnen in den Jahren 1883, 1884 and 1885, nebst Hinweisen auf die gleichen Verhältnisse in den übrigen deutschen Staaten, sowie in Deutsch-Oesterreich. Berlin, 1887. sq. F. pp. (1) + 32. 3 *maps.*
"Fortsetzung des xii. Ergänzungsheftes zur *Zeitschrift des königlich preussischen statistischen Bureaus.*"

Reden, F. W., *Freiherr* von. Die Eisenbahnen Deutschlands: statistisch-geschichtliche Darstellung ihrer Entstehung, ihres Verhaltnisses zu der Staatsgewalt, so wie ihrer Verwaltungs-und Betriebs-Einrichtungen. 2e, bedeutend vermehrte Auflage. Berlin, Posen, Bromberg, 1846. O. pp. (4) + vii-xiv + 562 + (1).

Riegels, G. Die Verkehrsgeschichte der deutschen Eisenbahnen mit Einschluss der heutigen Verkehrslage zum fünfzig jahrigen Jubilaum der ersten preuss. Eisenbahnen. Elberfeld, 1889. O. pp. (4) + 367 + (1).

Saxony—*Staatseisenbahnen.* Geschichte der königlich-sachsischen Staatseisenbahnen; Denkschrift zur Feier der achthundertjährigen Herrschaft des Hauses Wettin in den sächsischen Landen. Dresden, 1889. sq. Q. pp. (2) + 5–147. 2 *colored fold. maps*, 2 *colored fold. plates.*

Zur Kritik des preussischen Eisenbahnwesens. Leipzig, 1890. O. pp. 30. P. 82.

V. GREAT BRITAIN AND IRELAND.

A., M. The imperial railway of Great Britain. Oxford and Lond., 1865. nar. D. pp. 12. P. 39.

Acworth, W. M. The railways of England: North Western; Midland; Great Northern; Manchester, Sheffield and Lincoln; North Eastern; South Western; Great Western; Great Eastern; Brighton and South Coast; Chatham and Dover; South Eastern. 3d ed. Lond., 1889. O. pp. (3) + vii-xvi + 427. 39 *cts.*, 17 *plates.*

—— The railways of Scotland. v. Lond., 1889. O. pp. (18.) P. 65.
"Extracted from *Murray's magazine*, vol. 6, Dec., 1889. pp. 802–819.

—— The railways of Scotland: their present, past and future. Lond., 1890. D. pp. viii + 199. 1 *fold. map.*

Anderson, J. Recreations in agriculture, natural-history, arts and miscellaneous literature. Lond., 1799–1801. 4 vols. O.
In his *History of railways* Francis gives Anderson credit for being the *first to suggest an organized system of railways.* The suggestions will be found in the above *Recreations*, vol. iv, p. 198–217. "On cast iron rail-ways."

Aristides, *pseud.* Modern tyranny. Lond., 1835. O. pp. (1) + 57.

Bineau, J. M. Chemins de fer d'Angleterre: leur état actuel, législation qui les régit, conditions d'art de leur tracé, [etc.]; application a la France des résultats de l'expérience de l'Angleterre et de la Belgique. Paris, 1840. O. pp. (2) + 456. 1 *fold. map.*

Chambers, W. About railways. Lond., Edinburgh, [1866.] S. pp. (4) + 103. 5 *figs.*

Churton, E. The railroad book of England: historical, topographical, and picturesque; descriptive of the cities, towns, country seats, and other subjects of local interest; with a brief sketch of the lines in Scotland and Wales. Lond., [1851.] Q. pp. (4) + ix–xxxiv + 590. *frontisp.*, 54 *cts.*, 1 *fold. map.*

Cort, R. The anti-rail-road journal; or rail-road impositions detected; contains an answer to the *Edinburgh review* and *Mechanic's magazine*, &c. Lond., 1835. O. pp. xii + 122 + (1). P. 39.

Cundy, N. W. Inland transit: the practicability, utility, and benefit of railroads, steam engines, steam carriages; with an abstract of the evidence taken before Parliament on the Birmingham railroad bill; also, the plans, sections, and estimates of the projected Grand Southern and Northern railroads. 2nd ed. Lond., 1834. O. pp. iv + (1) + 161. 1 *fold. plate*, 2 *fold. maps.*

Dodds, J. Railway reform a public necessity, with practical suggestions. Belfast, Dublin, 1868. O. pp. 23. 1 *fold. map.* P. 43.

[Fearnley, B. L.] Irish railways and the Irish Board of Public Works; a review of some of the unused powers of the Loan Commissioners with suggestions for their practical employment. Dublin, 1871. O. pp. 43. P. 59.

—— Railways, Ireland, imperial guarantee; a bill proposed, intituled, an act for authorizing a guarantee of interest on capital, to be raised towards the construction of railways in Ireland. Warrenpoint, [1871]. F. pp. 3. P. 59.

Few (A) general observations on the principal railways executed, in progress & projected, in the Midland counties & north of England, with the author's opinion upon them as investments. Lond., 1838. O. pp. xvi + 64. 4 *fold. maps.*

France, R. S. Lord Redesdale and the new railways: a review of his lordship as a railway legislator. Lond., 1867. O. pp. 24. P. 43.

—— *and* **Redesdale,** *Lord.* Lord Redesdale and the new railways: correspondence. Lond., 1867. O. pp. 20. P. 43.

France—*Ministère des Travaux Publics.* Les chemins de fer anglais en 1873; rapport de mission par M. Malézieux. 2e éd. Paris, 1874. sq. F. pp. (2) + 179. 2 *fold. maps.*

Francis, J. A history of the English railway, its social relations and revelations, 1820–1845. Lond., 1851. 2 vols. bd. in 1. O. pp. (8) + 308; (1) + v–viii + 282.

Franqueville, C. de. La Commission des chemins de fer en Angleterre; réponse à un article inséré dans les *Annales des ponts et chaussées*, août 1880. Paris, 1881. O. pp. (2) + 5–39.

[G., W.] Chorographia; or, A survey of Newcastle upon Tine. Newcastle, 1649. D. pp. (6) + 48. *Reprint*, [1818?] P. 82.

p. 35:—"Some south gentlemen, hath upon great hope of benefit, come into this country to hazard their monies in coale-pits. Master Beamont, a gentleman of great ingenuity, and rare parts, adventured into our mines with his thirty thousand pounds; who brought with him many rare engines, not known then in these parts; . . . rare engines to draw water out of the pits: waggons with one horse to carry down coales, from the pits, to the stathes, to the river, &c. Within few years, he consumed all his money, and rode home upon his light horse."

Glasgow. Report and resolutions of a public meeting held March 20, [1846], in support of Sir Robert Peel's suggestions in reference to railways. Glasgow, 1846. O. pp. 14 + (1).

[Gray, T.] Observations on a general iron railway; showing its great superiority, by the general introduction of mechanic power, over all the present methods of conveyance. 4th ed., considerably improved. Lond., 1823. O. pp. (2) + vii–xii + 131. 3 *plates*, 2 *fold. plates.*

Great Britain—*Board of Trade.* General report on the railway and canal bills of session 1858–64. [Lond., 1858–64.] 7 vols. F.

With "Further reports" for 1858–60, '64.

—— Railway returns for England and Wales, Scotland, and Ireland, for 1872–77, '79–93; with summary tables for United Kingdom for each year from 1853/72–1854/93. Lond., 1873–94. 21 vols. F.

—— Report upon the railway, canal, tramway, subway, gas, and water bills of session 1888; with statements relating to applications to the Board of Trade for provisional orders for tramways. Ordered printed 9 Feb., 1888. Lond., [1888.] F. pp. 47.

—— —*House of Commons.* Five reports from the select committee on railway communication; together with the minutes of evidence. Ordered printed 16th August, 1840. [Lond., 1840.] 5 vols. in 1. F. pp. (2) + 25; 10; 14; 8; iv + 529. 1 *plate.*

—— Report from the select committee on railroad communication; together with the minutes of evidence. Ordered printed 16th August, 1838. [Lond., 1838.] F. pp. viii + 164.

—— Report from the select committee on railway bills, Ireland, with the minutes of evidence. Ordered printed 23 May, 1845. [Lond., 1845.] F. pp. vi + 48.

In vol. "Railways in Ireland. Miscellaneous. 1."

—— 1st–2nd report from the select committee on railways; together with the minutes of evidence. Ordered printed 20th June, 1839. [Lond., 1839.] 2 vols. F. pp. iv + 121; xviii + 546 + 55. 3 *fold. plans.*

—— Reports of committees on railway bills. Session 1836; 1837; 1838 & '39; 1840 to '43; 1844. Lond., [1836–44.] 5 vols. F.

—— — *Irish Railway Commission.* First report of the commissioners appointed to inquire into the manner in which railway communications can be most advantageously promoted in Ireland. Lond., 1837. F. pp. 10, and 2 *Atlases* obl. F⁵. 23 *plates;* 87 *plates.*

In vol. "Railways in Ireland. 1837-38."

—— Second report of the commissioners appointed to consider and recommend a general system of railways for Ireland. Dublin, 1838. F. pp. vi + 124 + 49 + 92 + 119, and *Atlas of* 6 *maps* F⁷.

In same. Sir John Rennie's copy.

—— *Same.* Minor ed. Lond., 1838. O. pp. (1) + iv + 213.

—— [1st,] 2nd report of the commissioners appointed [Oct. 15, 1867] to inspect the accounts and examine the works of railways in Ireland, made to the Lords Commissioners of Her Majesty's Treasury. Lond., 1868. 2 vols. F. pp. 178. 1 *fold. map*; pp. 70. 2 *fold. maps.*

—— Railways, Ireland, Commission; Sections: 1. gradient sections of railways completed and carrying traffic; 2. sections of rails showing the prevailing type of the various companies; 3. sections of canals and river navigations; 4. standard types of locomotive engines. Lond., 1868. F. pp. (2). 4 *fold. plates.*

—— — *Railway and Canal Commission.* 1st–6th annual report, 1889–94. Lond., 1890–95. 6 vols. F.

—— — *Railway Commissioners.* Indexes to reports of commissioners, 1837–46. Ordered printed 21 July, 1847. [Lond., 1847.] F. pp. vii + 275.

Contents:—Railway communication: London, Dublin, Edinburgh and Glasgow.—Inspectors.—Railway department.—Amalgamation of railways.—Atmospheric railway.—Metropolitan railway.—Gauge.—Railways, Ireland. —Scotland.

—— Report, 1847–50. Lond., 1848–51. 4 vols. F.

—— Reports on certain railway bills. Ordered printed 10 March–28 May, 1847. [Lond., 1847.] 73 reports bd. in 1 vol. F.

—— *Same.* Index to reports, 1847. [Lond., 1847.] F. pp. 23.

—— 1st–8th, 10th–14th annual report, 1873–81, '83–87. Lond., [1875]–87. 13 vols. F.

—— — *Railway Department of the Board of Trade.* Report of the officers of the Railway department to the president of the Board of trade, for 1841–1845. Lond., 1842–46. 5 vols. F.

There are two reports in 1841, and the reports for 1844 and '45 are combined.

—— Report on proposed amalgamations of railways. Ordered printed 7 May, 1845. [Lond., 1845.] F. pp. 9.

—— Report on railways projected in the north and north-west of Ireland. Ordered printed 13 Mar., 1845. [Lond., 1845.] F. pp. 8. 1 *fold. map.*

—— Report on railways proposed to be made in Ireland, westward of Dublin. Ordered printed 20 Mar., 1845. [Lond., 1845.] F. pp. 6. 1 *fold. map.*

—— Report on schemes for extending railway communication in Lancashire and adjoining districts Ordered printed 16 Apr., 1845. [Lond., 1845.] F. pp. 14. 2 *fold. maps.*

—— Report on schemes for extending railway communication in various districts. Ordered printed 17 Apr., 1845. [Lond., 1845.] F. pp. 11.

—— Report on schemes for extending railway communication in various districts. Ordered printed 8 May, 1845. [Lond., 1845.] F. pp. 3.

—— Report on the Colchester and Harwich railways. Ordered printed 31 Mar., 1845. [Lond., 1845.] F. pp. 3.

—— Report on the Kentish and South Eastern railway schemes. Ordered printed 13 Feb., 1845. [Lond., 1845.] F. pp. 12. 1 *fold. map.*

—— Report on the London, Worcester, and Wolverhampton, and on the Birmingham and Shrewsbury districts. Ordered printed 28 Feb., 1845. [Lond., 1845.] pp. 11. 1 *fold. map.*

—— Report on the Manchester and Leeds district. Ordered printed 24 Feb., 1845. [Lond., 1845.] F. pp. 18. 1 *fold. map.*

—— Report on the schemes for extending railway communication between London and York. Lond., [1845.] O. pp. 61. P. 41.

—— Report on the schemes for extending railway communication between London and York. Ordered printed 20 Mar., 1845. [Lond., 1845.] F. pp. 26. 1 *fold. map.*

—— Report on the schemes for extending railway communication from Newcastle to Berwick. Ordered printed 24 Feb., 1845. [Lond., 1845.] F. pp. 7. 1 *fold. map.*

—— Report on the schemes for extending railway communication in Cornwall and Devonshire. Ordered printed 4 Mar., 1845. [Lond., 1845.] F. pp. 5.

—— Report on the schemes for extending railway communication in Scotland. Ordered printed 13 Mar., 1845. [Lond., 1845.] F. pp. 14. 1 *fold. map.*

—— Report on the schemes for extending railway communication in South Wales. Ordered printed 20 Mar., 1845. [Lond., 1845.] F. pp. 4. 1 *fold. map.*

—— Report on the schemes for extending railway communication in the counties of Norfolk and Suffolk. Ordered printed 4 Mar., 1845. [Lond., 1845.] F. pp. 7. 1 *fold. map.*

—— Report on the schemes for extending railway communication in the districts of Berkshire, Hampshire, Wiltshire, Dorsetshire and Somersetshire. Ordered printed 28 Feb., 1845. [Lond., 1845.] F. pp. 6. 1 *fold. map.*

—— Report on the schemes for extending railway communication in the south of Ireland. Ordered printed 20 Mar., 1845. [Lond., 1845.] F. pp. 8. 1 *fold. map.*

—— Report on the schemes for extending railway communication north of Leeds. Ordered printed 31 Mar., 1845. [Lond., 1845.] F. pp. 6. 2 *fold. maps.*

—— Report on the schemes for extending railway communication to Portsmouth. Ordered printed 31 Mar., 1845. [Lond., 1845.] F. pp. 5. 1 *fold. map.*

—— Report on the Trent Valley and Churnet Valley railway schemes. Ordered printed 13 Mar., 1845. [Lond., 1845.] F. pp. 3. 1 *fold. map.*

—— Report to the Lords of the Committee of Privy Council for Trade and Foreign Plantations, of the proceedings of the Department relating to railways, 1851–58. Lond., 1852–59. 8 vols. F.

Report for 1858 "By Captain Douglas Galton."

—— Return for copies of all reports made to the Committee of Privy Council by persons appointed by them as inspectors of railways, under the provisions of the act 3 & 4 Vict., c. 97. Ordered printed 8 March, 1841. [Lond., 1841.] F. pp. 184.

Contents:—Reports on accidents; on the opening of new railways; returns relative to bye-laws; relative to aggregate traffic.

—— — *Treasury.* 1st–4th reports of the committee appointed by the lords of the Treasury, in pursuance of addresses of the House of Commons of 12th, 14th, and 20th August, 1839, [on railway communication in Great Britain.] [Lond., 1840–41.] 4 vols. bd. in 1. F. pp. 50. 2 *fold. maps,* 1 *diagr.;* pp. 33. 4 *fold. plates,* 5 *fold. maps;* pp. 10. 3 *fold. plates,* 3 *fold. maps;* pp. 68 + 210. 48 *fold. plates,* 2 *fold. maps.*

Contents:—1. Report to the lords of the Treasury and Admiralty relative to the best means of communicating between London and Dublin.—2. Report respecting railway communication between London, Dublin, Edinburgh, and Glasgow.—3. Grayrig line of railway from Lancaster to Carlisle.—4. London, Edinburgh and Glasgow.

Sir John Rennie's copy.

—— — *Royal Commission on Irish Public Works.* Second report. Lond., 1888. F. pp. 57. 1 *fold. map.*

—— — *Same.* Appendix. Dublin, 1888. F. pp. xxxix + 771.

[H., G. A.] Railway administration and improvement. Lond., 1845. O. pp. ii + 80. 2 *figs.*, 1 *fold. plate.* P. 40.

Extracted from the *Westminister review*, vol. 42.

Jackson, R., *compiler.* Hand book of Irish railway reform: containing copy of memorial addressed to the Lords Commissioners of Her Majesty's Treasury, by the people of Ireland; together with the resolutions passed at public meetings, extracts from the evidence given before the Royal Commissioners on Railways, and the plan, as submitted to them by the Irish Railway Reform Committee, for improving and developing Irish railways. Dublin, 1866. O. pp. (1) + 63. P. 59.

Langton, H. C. What must be done for railways? Question considered and answered. Lond., Liverpool, Manchester, [1849?] O. pp. (3) + 5–26. P. 41.

"To the editor of the Railway record, with the author's respects."

Memoranda deduced from official and public documents, and intended to show the comparative advantages desirable to the trade and commerce of Dublin, from the project of a railway for commercial purposes. n.t.p. Dublin, [1833?] O. pp. 43. P. 59.

—— *Same.* [Another ed.] A concise statement of the proceedings of the Ballast corporation; an inquiry into the promised and probable consequences to the trade and commerce of Dublin, from the proposed railway between Kingstown and Dublin. Dublin, [1833?] O. pp. (1) + 60. 1 *fold. map.* P. 59.

[Mence, R. M.] Remarks upon the general railway acts, printed and to be proposed in the approaching session, with suggestions for more efficient restraint on the arbitrary powers of the railway companies; by a small land-owner. Lond., 1845. O. pp. 14.

Mudge, R. Z. Observations on railways, with reference to utility, profit, and the obvious necessity for a national system. Lond., 1837. O. pp. (1) + 73. 1 *fold. table,* 1 *fold. map.* P. 39.

North, R. The life of Francis North, Baron of Guilford. [1637–1685.] 3d ed. Lond., 1819. 2 vols. O.

Vol. 1. pp. 264-265: "His lordship's entertainment at Newcastle was very agreeable . . . Some of the aldermen related strange histories of their coal works. . . . The manner of the carriage is by laying rails of timber, from the colliery down to the river, exactly straight and parallel; and bulky carts are made with four rowlets fitting these rails; whereby the carriage is so easy that one horse will draw down four or five chaldron of coals, and is an immense benefit to the coal merchants."

On the selection of projected lines, with description of the railway scale. Lond., n.d. O. pp. 23. P. 47.

Map and scale lacking.

Parsloe, J. Our railways; sketches historical and descriptive, with practical information as to

fares and rates, and a chapter on railway reform. Lond., 1878. D. pp. (9) + 294.

Pattinson, J. P. British railways: their passenger services, rolling stock, locomotives, gradients, and express speeds. 2d ed. Lond., 1893. O. pp. (4) + vii–xiv + (1) + 252. 36 *plates.*

Pendleton, J. Our railways: their origin, development, incident and romance. Lond., 1894. 2 vols. O. pp. (3) + vii–xxiv + 556. *fold. frontisp.*, 123 *cts.*; pp. (2) + vii–xvi + 559. *frontisp.*, 171 *cts.*

Priestly, J. Historical account of the navigable rivers, canals and railways of Great Britain, as a reference to Nichols, Priestly & Walker's new map of inland navigation. Lond., 1831. O. pp. xiv + (1) + 702 + viii. 1 *fold. map.*, 1 *fold. plate.*
See also infra MAPS.

Railways and shareholders; with glances at railway transactions, shareholders' powers, accounts and andits, railway meetings, defective legislation, &c. By an Edinbro' reviewer. Lond., 1849. O. pp. 20. P. 44.

Railways (The) of England; containing an account of their origin, progress, and present state; a description of the several parts of a railway, and a history of their invention; [by the author of the "Zoological gardens."] Lond., 1839. S. pp. (2) + 126. 1 *fold. map.*
Cover title: "Gilbert's railways of England and Wales; with a map. Lond., 1838."

Railways (The) of Great Britain. Lond., [1860.] O. pp. (79).
Extracted from *Lever's illustrated year-book*, 1861: The railway and the mine.

Rendel, J. M. Report of a proposed line of railway from Plymouth, Devonport, and Stonehouse, to Exeter, over the Forest of Dartmoor, with a branch to Tavistock. August, 1840. Plymouth, [1840.] O. pp. 26. 1 *fold. map.*

Richardson, J. Observations on the proposed railway from Newcastle upon Tyne to North Shields. 2d ed. Lond., 1834. nar. O. pp. vi + 72. 1 *map.*

Ruminations on railways. Lond., 1845. 2 pts. O. pp. (1) + 5–15; 32.
Contents:—1. Railway speculation.—2. The Railway Board of Trade.

Schwabe, H. Ueber das englische Eisenbahnwesen; Reisestudien. Berlin, 1871. Q. pp. (3) + v–x + 133 + (1). 1 *fold. map.*
Contents:—Geschichtliche Einleitung.—Die englischen Eisenbahnen im volkswirthschaftlicher Beziehung.—In technischer Beziehung.—Bahnhofs-Anlagen.—Unterirdische Bahnen.—Betrieb.—Secundäre Eisenbahnen.—Tarife.—Railway Clearing House.

—— *Same, French.* Étude sur les chemins de fer anglais d'après des notes recueillies dans un voyage en Angleterre; traduit par A. Huberti et A. Habets. Paris, Liége, 1872. O. pp. xx + 259. 1 *fold. map.*

Scrivenor, H. The railways of the United Kingdom statistically considered in relation to their extent, capital, amalgamations, debentures, financial position, acts of Parliament by which regulated, creation and appropriation of shares, calls, dividends and various other minor particulars. Lond., 1849. O. pp. (1) + v–xii + 733 + (1) + 106 + (1). 1 *fold. table.*

—— *Same.* Supplemental part. Lond., 1851. O. pp. (4) + 159. 1 *fold. table.*

Seargeant, L. J. The English railway system. Chicago, 1885. O. pp. 9. P. 65.
Cover: "Reprinted from the *Railway review.*"

Spackman, W. F. An analysis of the railway interest of the United Kingdom; embracing all companies registered to the 31st Oct., 1845. Lond., 1849. O. pp. 54 + (1).

—— A review of the railway interest of the United Kingdom; with suggestions as to the necessity of amending the law relating to public companies. Lond., 1849. O. pp. 52. 1 *fold. table.*

Stephenson, R. Address ["Our British railways"] on his election as president of the Institution of Civil Engineers, sessions 1855–56. Lond., 1856. O. pp. 34. P. 42.
"Excerpt *Minutes of the Proceedings of the Institution of Civil Engineers, vol.* 15, *session* 1855–56." "From the President."

Stevenson, R. Notes on rail-ways. [Edinburgh,] n.d. O. pp. (1) + 17. 1 *fold. plate.*
"From the *Transactions of the Highland Society of Scotland.*" "To the Lord Provost, Glasgow, with Mr. Stevenson's compliments."

Tyrwhitt, *Sir* **T.** Substance of a statement made to the Chamber of Commerce, Plymouth, 3rd Nov., 1818, concerning the formation of a rail road from the Forest of Dartmoor to the Plymouth lime-quarries, with a plan of the intended line. Plymouth-Dock, Lond., [1819?] O. pp. 29. 2 *fold. maps.* P. 39.

"Vates" railway prospects for 1851 investigated. Lond., n.d. O. pp. 8. P. 42.

Whishaw, F. Analysis of railways; a series of reports on the railways projected in England and Wales, in the year 1837. 2d ed., with additions and corrections. Lond., 1838. O. pp. xv + 298. *frontisp.*

—— The railways of Great Britain and Ireland practically described and illustrated. 2d ed., with additional plates. Lond., 1842. sq. Q. pp. (3) + v–xxvi + (1) + 500 + lxiv. 5 *plates*, 12 *fold. plates*, 1 *fold. map.*
Plate 15 lacking.

White, G. P. Letter to Lord John Russell on the expediency of promoting railways in Ireland. Lond., 1849. O. pp. 40. P. 59.

Whitehead, J. Railway prostration; causes and remedies. Lond., 1849. O. pp. (2) + 5–25. P. 41.
Lacking pp. 19–20.

Williams, F. S. Our iron roads: their history, construction, and social influences. Lond., 1852. O. pp. (1) + xi + (1) + 390. 64 *cts.*, 7 *plates.*

—— *Same.* 6th ed., revised. Lond., 1885. O. pp. (2) + vii–xvi + 520. 142 *cts.*, 2 *plates.*

a. GUIDES.

Bradshaw's general railway and steam navigation guide, for Great Britain and Ireland. August, 1871. Lond., [1871.] S.

Bradshaw's railway companion, containing the times of departure, fares, &c. of the railways in England; with maps of the country through which the railways pass. Manchester, 1841. Tt.

—— *Same.* Manchester, 1842. Tt.

—— *Same.* Manchester, London, 1844. Tt.

Bradshaw's railway time tables and assistant to railway travelling, with illustrative maps and plans. Lond., 1839. Tt. *Reprint.*

Bradshaw's shilling handbook of Great Britain and Ireland. Section IV; comprising a descriptive guide and handbook to the Midland; Great Northern; Manchester, Sheffield & Lincolnshire, [etc.] railways. Lond., Manchester, n.d. sq. S. pp. xvi + 145. *illus.*

—— FITZGERALD, P. The story of "Bradshaw's guide." Lond., 1890. sq. T. pp. (1) + 5–76. 2 *illus.*

—— REACH, A. B. The comic Bradshaw; or, Bubbles from the boiler. Lond., [1848.] T. pp. (1) + 5–64. 47 *cts.*

Chapman's British railway guide. [Lond., 1851?] broadside. 63.5 x 42 cm.
With "Chapman's British map of railways in Great Britain" on back.

Coghlan, F. The iron road book and railway companion from London to Birmingham, Manchester and Liverpool; containing an account of the towns on each side of the line, times of arrival and departure of the trains at the several stations, with tables of distances and fares from station to station. Lond., 1838. T. pp. 180. 12 *maps.*

[Cole, *Sir* **H.]** Felix Summerly's pleasure excursions, as guides for making day's excursions on the Eastern Counties, South-Eastern, Brighton and South Coast, South-Western, and London and North-Western railways. Lond., 1847. O. pp. (74). 74 *engrs.*

[——] *Railway chronicle* travelling charts; or, Iron road books, for perusal on the journey; in which are noted the towns, scenery and natural history, antiquities and historical associations, passed by the line of railway. London to Ashford, Folkestone and Dover. Lond., [184–]. folder. nar. O.

[——] *Same.* London to Basingstoke, Winchester and Southampton, on the South-Western. Lond., [184–]. folder. nar. O.

[——] *Same.* London to Reading, Didcot and Oxford. Lond., [184–]. folder. nar. O.

[——] *Same.* London to Woking and Guildford. Lond., [184–]. folder. nar. O.

[——] *Same.* London to Wolverton. Lond., [184–]. folder. nar. O.

[——] Railway travelling charts; or, Iron road books, for perusal on the journey; in which are noted the towns, scenery, natural history, antiquities and historical associations, passed by the line of the railway: London and Brighton. Lond., [184–]. folder. nar. O.

Cornish, J. The Grand Junction, and the Liverpool and Manchester railway companion; containing an account of Birmingham, Liverpool and Manchester, and the towns on or near the line. Birmingham, Lond., 1837. T. pp. (2) + 110. 1 *fold. map*, 1 *fold. table.*

—— *Same.* 2nd ed. enlarged and improved. Birmingham, Lond., 1837. T. pp. (4) + 5–172. 1 *fold. map.*

—— *Same.* 3rd ed. enlarged and considerably improved. Lond., 1839. S. pp. (4) + 9–216. 2 *fold. maps.*

Drake's railway sheet of the Grand Junction, Manchester, Bolton and Bury, and North Union railway companies; [and] of the London & Birmingham, Liverpool & Manchester, and Great Western railway companies. Corrected to May 1, 1839. [Birmingham, 1839.] obl. Q. pp. (2). 2 *fold. maps.*

Head, *Sir* **G.** A home tour through the manufacturing districts of England, in the summer of 1835. Lond., 1836. D. pp. (2) + v–xi + 434.
Liverpool and Manchester, Leeds and Selby, Stockton and Darlington railways, etc.

—— A home tour through various parts of the United Kingdom; a continuation of the "Home tour through the manufacturing districts." Lond., 1837. D. pp. (10) + 351. 1 *map.*

Hints to railway travellers and country visitors to London; by an old stager. Lond., 1852. S. pp. (5) + 51.

Home and country scenes on each side of the London and Birmingham and Grand Junction railways. Lond., n.d. O. pp. (1) + 104 + (1) + 136. 20 *figs.*, 23 *plates.*

Measom, G. [Official illustrated guide to the Great Northern; Manchester, Sheffield and Lincolnshire; and Midland railways. Lond., 1861.] D. pp. (4) + ix–xvi + 544. *illus.*
Title page wanting.

—— The official illustrated guide to the Great Western railway, including the Oxford, Worcester

and Wolverhampton, and Chester and Holyhead lines, and Isle of Man. Lond., [1860.] D. pp. (8) + 872. *illus.*

—— The official illustrated guide to the Lancaster and Carlisle; Edinburgh & Glasgow; and Caledonian railways. 2nd ed. [Lond., 1861.] D. pp. (6) + 343 + (1). *illus.*

—— The official illustrated guide to the London and South-Western; North and South Devon; Cornwall; and West Cornwall railways. [Lond., 1864.] D. pp. (3) + vi-lii + 475 + (1). *illus.*

—— The official illustrated guide to the London and South-Western; North and South Devon; Cornwall; and West Cornwall railways; and the Isle of Wight. [Lond., 1864.] D. pp. (3) + vi -lii + 475 + (7) + 190. *illus.*

Author's presentation copy.

—— The official illustrated guide to the North-Eastern; North British; Edinburgh & Glasgow; Scottish Central; Edinburgh, Perth and Dundee; Scottish North-Eastern; and Great North of Scotland railways. [Lond., 1861.] D. pp. (6) + 447 + (1). *illus.*

—— The official illustrated guide to the North-Western railway (including the Chester and Holyhead line) and all their branches. [Lond., 1859.] D. pp. (8) + 574 + (2). *illus.*

Shaw, G. The official tourists' picturesque guide to the London and North-Western railway, and other railways with which it is immediately in connection; specially prepared for the use of American tourists. Lond., [1876]. S. pp. xx + 656. *illus.*

Sidney, S. Railways and agriculture in North Lincolnshire; rough notes of a ride over the track of the Manchester, Sheffield, Lincolnshire, and other railways. Lond., 1848. nar. T. pp. (3) + vii-xv + 103. 1 *fold. map.*

—— Rides on railways leading to the lake & mountain districts of Cumberland, North Wales, and the dales of Derbyshire; with a glance at Oxford, Birmingham, Liverpool, Manchester, and other manufacturing towns. Lond., [1851]. S. pp. (5) + 254. *illus.*, 1 *fold. map.*

Time tables of the Dundee & Arbroath, Dundee & Perth, and Dundee and Newtyle railways. Jan.-Dec., 1857. Dundee, 1857. 12 nos. bd. in 1 vol. S.

Warden, J. The Glasgow and Ayr, and Glasgow and Greenock railway companion; containing a description of the railroads. Glasgow, 1841. T. pp. (2) + v-xii + 13-134. *frontisp.*

Cover title: "Morrison's guide to the Glasgow, Greenock & Ayrshire railway."

Wyld, J., *publisher.* The Great Western; Cheltenham and Great Western; and Bristol and Exeter railway guides; with a preliminary description of the construction of the Great Western and other railways. Lond., 1839. T. pp. xxxvi + 284. *illus.*

Cover title: "Wyld's Great Western railway guide. Cheltenham, Bristol and Exeter."

b. Individual Railways.

Aberdeen — Great Britain — *Parliament*— 16 & 17 *Vict.* An act to enable the A. ry. to raise further moneys; to authorize the abandonment of the authorized road to the quays; to extend the time for the compulsory purchase of lands, to alter, amend and extend the acts relating to the company. Royal assent, 8th July, 1853. [Lond., 1853.] F. pp. 37.

—— Notman, R. R. Railway amalgamation: addressed to the shareholders of the Aberdeen, Scottish Midland, Dundee and Arbroath, Scottish Central, and Caledonian railway companies. Lond., 1852. O. pp. 30.

Aberdeen and Turriff — Great Britain — *Parliament*—22 *Vict.* An act to grant further powers to the Banff, Macduff, and Turriff Junction ry., and to change the name of the company. [Royal assent,] 19th April, 1859. [Lond., 1859.] F. pp. 133-139.

Angerstein's Branch — Great Britain — *Parliament*—14 & 15 *Vict.* An act to authorize the construction of a bridge across the lower turnpike road, leading from Greenwich to Woolwich, and the crossing of a footpath. Royal assent, 20th May, 1851. [Lond., 1851.] F. pp. 6.

Athenry and Ennis Junction — Great Britain—*House of Commons.* A bill to enable the A. & E. ry. to raise additional capital. [Lond., 1865.] F. pp. 8.

In vol. "Railway bills."

Ayr and Dalmellington—Great Britain— *Parliament*—16 & 17 *Vict.* An act to authorize the extension of the railway already partly executed between Smithstown and Dalmellington in Ayr, to Dalmellington, and to the Glasgow and South Western ry. near Ayr. Royal assent, August 4th, 1853. [Lond., 1853.] F. pp. 16.

Banbridge, Dublin, Newry and Belfast Junction—Great Britain—*House of Commons.* Report from the committee on the B. D. N. & B. J. ry. bill, 14 June, 1853. n.t.p. [Lond., 1853.] F. pp. 631-633.

This and the next following, in vol. "Railway reports. Ireland. 2."

—— *Same.* 7 July, 1853. n. t. p. [Lond., 1853.] F. pp. (1).

Banbridge Extension — Great Britain— *Parliament*—24 & 25 *Vict.* An act for making a railway from Banbridge to Ballyroney, with a branch railway therefrom to Rathfriland. Royal assent, 28th June, 1861. [Lond., 1861.] F. pp. (2) + 23.

In vol. "Railway bills."

Banbridge Junction — GREAT BRITAIN — *House of Commons.* Report from the committee on the Banbridge Junction ry. bill. 7 March, 1856. n.t.p. [Lond., 1856.] F. pp. (1).
This and the next following, in vol. "Railway reports. Ireland. 2."

Banbridge, Lisburn and Belfast — GREAT BRITAIN—*House of Commons.* Report from the committee on group (14) of railway bills: B. L. & B. Junction ry., 5 May, 1858. n.t.p. [Lond., 1858.] F. pp. 109–112.

—— — *Parliament*—25 & 26 *Vict.* An act to provide for the leasing of the B. L. & B. ry. to the Ulster ry. Royal assent, 30th June, 1862. [Lond., 1862.] F. pp. 6.
In vol. "Railway bills."

Belfast and County Down. Report of the directors, and statement of accounts, to be submitted to the half-yearly general meeting of proprietors, 31st August, 1864. Belfast, 1864. O.

—— GREAT BRITAIN — *House of Commons.* An act to authorize the entire abandonment of the Bangor branch of the B. & C. D. ry. [Lond., 1861.] F. pp. 3.

—— Report from the Committee on group (14) of railway bills: B. & C. D. ry. bill. 5 May, 1858. [Lond., 1858.] F. pp. (1).

—— Report from the committee on the B. & C. D. ry. bill. 10 June, 1846. n.t.p. [Lond., 1846.] F. pp. 1169–1176.

—— [Report from the committee on the] B. & C. D. ry. bill. 29 March, 1855. n.t.p. [Lond., 1855.] F. pp. 77–80.

—— Report from the sub-committee on group (13) of railway and canal bills: B. & C. D. ry. bill. 13 July, 1854. [Lond., 1854.] F. pp. 581–584.

—— — *House of Lords.* [*Manuscript:*] Minutes of evidence taken before the select committee on the B. & C. D. ry. bill. 8 March, 1860. [Lond., 1860.] F. pp. 138.
In vol. "P. D. & O., Co. Down & Bangor rys. Session 1860. Evidence."

Belfast and Northern Counties. Report of the directors and statement of accounts, to be submitted to the proprietors, at the 37th, 38th, 80th–99th half-yearly general meeting, 3rd Feb., 9th Aug., 1864, 10th Aug., 1885–9th Feb., 1895. Belfast, 1864–95. 22 vols. O.

Belfast, Holywood and Bangor — GREAT BRITAIN—*House of Lords.* [*Manuscript:*] Minutes of evidence taken before a select committee to whom is referred a bill entitled, "The Belfast, Holywood and Bangor ry." 8 March, 1860. [Lond., 1860.] F. pp. 18.
This and the one next following, in vol. "P. D. & O., Co. Down & Bangor rys. Session 1860. Evidence."

—— [*Manuscript:*] Minutes of proceedings taken before the select committee on the B. H. & B. ry. bill. 9 March, 1860. [Lond., 1860.] F. pp. 5.

Bideford Extension — GREAT BRITAIN — *Parliament*—16 & 17 *Vict.* An act for making a railway from the North Devon ry. at Fremington Pill to Bideford. Royal assent, Aug. 4th, 1853. [Lond., 1853.] F. pp. ii + 18.

Birkenhead, Chester, North Wales and Stafford—GREAT BRITAIN—*House of Commons.* A bill for making certain railways in Chester, Flint and Denbigh. [Lond., 1873.] F. pp. ii + 25. 1 *fold. map.*

—— A bill for making railways from Wrexham and Ruabon to Stafford. [Lond., 1873.] F. pp. iii + 24.

—— Estimate of expense for the works proposed to be authorized by the above bill. [Lond., 1873.] F. pp. 18.

—— *Same.* [Lond., 1873.] F. pp. 9.

—— Minutes of evidence [Birkenhead, Chester and North Wales ry. and Birkenhead, North Wales and Stafford ry. bill.] 24th April–20th May, 1873. [Lond., 1873.] F. pp. 700.

—— Minutes of proceedings, 24th April–20th May, 1873. [Lond., 1873.] F. pp. 118.

—— Table of distances. [Lond., 1873.] F. pp. 5.

—— — *House of Lords.* Minutes of evidence taken before the select committee. 9th–24th July, 1873. [Lond., 1873.] F. pp. 492.

—— Minutes of proceedings. 8th–24th July, 1873. [Lond., 1873.] F. pp. 3 + 37 + 154.

Birkenhead, Lancashire and Cheshire Junction—GREAT BRITAIN—*Parliament*—15 & 16 *Vict.* An act to consolidate into one act and to amend the provisions of the several acts relating to B. L. and C. J. ry.; to define the undertaking of the company. Royal assent, 1st July, 1852. Lond., [1852]. F. pp. iii + 35.

Birmingham and Oxford—GREAT BRITAIN —*Parliament*—16 & 17 *Vict.* An act for providing additional station accommodation at Birmingham, in connection with the Birmingham and Oxford Junction ry. and for enabling the Great Western ry. to use a portion of the Oxford, Worcester and Wolverhampton ry. and for making better provision with reference to the joint station at Wolverhampton. Royal assent, August 4th, 1853. Lond., [1853.] F. pp. 13.

Blackburn — GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act for extending and enlarging the powers of the Bolton, Blackburn, Clitheroe and West Yorkshire ry., for changing the name of the company. Royal assent, 24th July, 1851. [Lond., 1851.] F. pp. (1) + 14.

Blackburn and Preston—GREAT BRITAIN—*Parliament*—9 & 10 *Vict.* An act to unite and consolidate the B. & P. ry. with the East Lancashire ry. Royal assent, 3rd August, 1846. Lond., [1846.] F. pp. (1) + 18.
In vol. "Railway bills."

Blyth and Tyne—GREAT BRITAIN—*Parliament*—15 & 16 *Vict.* An act for maintaining and improving the B. & T. ry., and for incorporating the subscribers thereto. Royal assent, 30th June, 1852. Lond., [1852.] F. pp. 2 + 21.

—— —16 & 17 *Vict.* An act to enable the B. & T. ry. to construct branches in Northumberland. Royal assent, 4 August, 1853. Lond., [1853.] F. pp. 2 + 18.

—— [WELFORD, R.] Lambert's handbook to Tynemouth, and the Blyth and Tyne ry.; with descriptions of the most interesting places in the neighbourhood. Newcastle-on-Tyne, [1863 ?] D. pp. (1) + iv + 3–93. 11 *cts.*, 2 *plates*, 1 *fold. map.*

Bognor—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for making a railway from Chichester to Bognor. Royal assent, 14th June, 1853. Lond., [1853.] F. pp. ii + 15.

Bolton and Preston—GREAT BRITAIN—*Parliament*—7 *Vict.* An act to effectuate the sale of the B. & P. ry. to the North Union ry., to incorporate with such last mentioned company the proprietors of the B. & P. ry., and to consolidate shares into stock. Royal assent, May 10th, 1844. Lond., [1844.] F. pp. 26.

Boston, Sleaford and Midland Counties—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for making a railway from the Great Northern ry. at Boston, to the Great Northern ry. at Barkstone. Royal assent, 20th August, 1853. [Lond., 1853.] F. pp. ii + 26.

Brandling Junction. BRANDLING, R. W. A short account of the formation of the B. J. ry. Newcastle-upon-Tyne, n.d. O. pp. 7. 2 *fold. maps.* P. 80.

Bray and Enniskerry—GREAT BRITAIN—*House of Commons.* A bill to authorize the construction of a railway from the Dublin, Wicklow and Wexford ry., near Bray, to Enniskerry. [Lond., 1865.] F. pp. 18.

Bristol and Bath. BRISTOL (The) and Bath railway guide, with a list of fares, and times of starting. Bristol, Bath, [1840 ?] F. pp. 8.

Bristol and Clifton. BINGHAM, J. A speech delivered before a committee in the House of Commons, June 17 and 18, 1862, for the opponents of the B. and C. ry. bill. [Bristol, 1862 ?] O. pp. 82.

Bristol and Exeter—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act to amend some of the provisions of the acts relating to the B. & E. ry., and to grant to such company certain powers of holding shares in other undertakings. Royal assent, 20th May, 1851. [Lond., 1851.] F. pp. (1) + 15.

—— —15 & 16 *Vict.* An act to extend the powers of the act relating to the Yeovil branch of the B. & E. ry., to authorize a deviation in the line of such branch railway. Royal assent, 28th May, 1852. [Lond., 1852.] F. pp. (1) + 9.

Bristol and London and South-Western Junction—GREAT BRITAIN—*House of Commons.* A bill to authorize the construction of railways in the counties of Wilts, Somerset and Gloucester and to connect Bristol with the London and South-Western ry. from London to Exeter. [Lond., 1883.] F. pp. iii + 31.

—— Select committee on private bills: group 3. B. & L. & S.-W. J. ry. Minutes of evidence, 11th–24th April. [Lond., 1883.] F. pp. 539.

—— Select committee on private bills: group 3. B. & L. & S.-W. J. ry. Speech [by Mr. Pember for the promoters,] 11th April, 1883. [Lond., 1883.] F. pp. 13.

Bromyard and Hereford—GREAT BRITAIN—*House of Commons.* A bill for making railways from the Worcester, Bromyard and Leominster ry. at Bromyard, to the Worcester and Hereford ry., near Hereford, with branches. [Lond., 1866.] F. pp. ii + 18.
In vol. "Railway bills."

Caledonian. CALEDONIAN railway (The); a review of its financial position; by a public accountant. Lond., 1867. O. pp. (1) + 24.

—— CALEDONIAN railway (The); a further review of its financial position, in reply to the chairman's speech at the half-yearly meeting, held 25th Sept., 1867; by a public accountant. Lond., 1867. O. pp. 32.

—— CALEDONIAN railway: third pamphlet; by a public accountant. 3rd ed. Lond., 1868. O. pp. 28.

—— GREAT BRITAIN—*House of Commons.* A bill for authorizing the amalgamation of the Scottish North-Eastern ry. with the Caledonian ry. [Lond., 1866.] F. pp. ii + 3–35.
In vol. "Railway bills."

—— —*Parliament*—14 & 15 *Vict.* An act to enable the C. ry. to provide for the construction of certain branch railways in the county of Lanark. Royal assent, 24th July, 1851. [Lond., 1851.] F. pp. 10.

—— An act to sanction certain arrangements entered into between the C. ry. and the holders of guaranteed and preferential interests in the company, and to enable the company to raise a further sum of money. Royal assent, 7th August, 1851. [Lond., 1851.] F. pp. 47.

—— —16 & 17 *Vict.* An act to enable the C. ry. to extend the Glasgow, Barrhead and Neilston Direct ry. to Crofthead. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. 15.

—— —28 & 29 *Vict.* An act for the amalgamation of the Scottish Central ry. with the C. ry. [Royal assent,] 5th July, 1865. n.t.p. [Lond., 1866.] F. pp. 4305–1382.

—— — 29 & 39 *Vict.* An act for authorizing the amalgamation of the Scottish North-Eastern ry. with the C. ry. [Royal assent,] 10th August, 1866. n.t.p. [Lond., 1866.] F. pp. 5445–5518.

Cambrian — GREAT BRITAIN — *Parliament*— 27 & 28 *Vict.* An act to amalgamate the Oswestry and Newtown, Llanidloes and Newtown, Newtown and Machynlleth, and Oswestry, Ellesmere, and Whitchurch railway companies; and to confer powers upon the amalgamated and other companies. [Royal assent,] 25th July, 1864. n.t.p. [Lond., 1864.] F. pp. 3881–3950.

Carlisle and Greenhead. BROOKE, H. Sketch of the railroad, with a description of the scenery along the line. 2nd ed. Carlisle, 1836. S. pp. 15.

Carlisle and Silloth Bay—GREAT BRITAIN—*House of Commons.* Select committee on railway bills: group 3. C. & S. B. ry. and dock bill; 29th March, 1854. n.t.p. [Lond., 1854.] O. pp. 20.

Chard — GREAT BRITAIN — *Parliament*—16 & 17 *Vict.* An act to revive and amend the powers of the acts relating to the C. ry., to regulate the capital of the company, and to enable them to extend their authorized railway into Taunton. Royal assent, 15th August, 1853. [Lond., 1853.] F. pp. ii + 22.

Cheltenham and Great Western Union. An address from the directors to the shareholders. Cirencester, [1836.] O. pp. 22.

—— GREAT BRITAIN — *House of Commons.* Minutes of evidence taken before the committee on the C. & G. W. U. ry., March, 1842. Lond., 1842. F. pp. 33.

—— — *House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill intituled "An act for making a railway from Cheltenham and from Gloucester to join the Great Western ry., near Swindon" was committed. Ordered printed, 29th April, 1836. [Lond., 1836.] F. pp. 271.

Chester and Birkenhead—GREAT BRITAIN —*House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill intituled "An act for making a railway from Chester to Birkenhead," was committed. Ordered printed, 6th June, 1837. [Lond., 1837.] F. pp. 491.

Chester and Holyhead—GREAT BRITAIN—*House of Commons.* Copy of Mr. Rendel's report to the Admiralty on the C. & H. ry. Ordered printed, 10 May. 1844. [Lond., 1844.] F. pp. 9. 1 *fold. plate.*

—— PARRY'S railway companion from Chester to Holyhead; containing a narrative of the early and parliamentary history of the project; with a descriptive and historical account of the adjacent towns, and other objects of interest that present themselves on this line. Lond., Chester, 1848. S. pp. (3) + 9–154. 1 *fold. map.*

—— *Same.* 7th thousand. [2nd ed.] Chester, [1849.] S. pp. 158. 1 *fold. map.*

—— WILLIAMS, C. W. Remarks on the proposed asylum harbour at Holyhead, and the monopoly contemplated by the Chester and Holyhead railway. [Lond.,] 1847. O. pp. (2) + 3–46. 3 *fold. maps.*

Clonmel, Lismore and Dungarvan — GREAT BRITAIN—*House of Commons.* A bill to authorize the construction of railways from the Waterford and Limerick ry. at Clonmel, to Lismore and Dungarvan. [Lond., 1865.] F. pp. 18.
In vol. "Railway bills."

Coleford, Monmouth, Usk and Pontypool — GREAT BRITAIN — *Parliament*—16 & 17 *Vict.* An act for making a railway from the Newport, Abergavenny and Hereford ry., in Monmouth, to Coleford, in Gloucester, with a branch. Royal assent, August 20th, 1853. Lond., [1853.] F. pp. ii + 3–24.

Cork and Bandon — GREAT BRITAIN—*Parliament*—15 *Vict.* An act to enable the C. & B. ry. to raise further capital, and to make arrangements with respect to their present capital and mortgage debt. Royal assent, 28th May, 1852. [Lond., 1852.] F. pp. (1) + 9.

—— — 16 & 17 *Vict.* An act to consolidate the acts relating to the C. & B. ry. to authorise the company to construct extension and branch railways. Royal assent, 15th August, 1853. [Lond., 1853.] F. pp. iv + 39.

Cork and Limerick Direct—GREAT BRITAIN —*House of Commons.* A bill to authorise the C. & L. Direct ry. to issue preference shares in lieu of cancelled shares, and to create debenture stock; and to sell or lease their undertaking to the Great Southern and Western ry. [Lond., 1865.] F. pp. (2) + 8.
In vol. "Railway bills."

Cork and Waterford — GREAT BRITAIN — *Parliament*—14 & 15 *Vict.* An act to enable the C. & W. ry. to make arrangements as to their capital, and to provide for the immediate completion of the Tramore branch. Royal assent, July 24th, 1851. [Lond., 1851.] F. pp. (1) + 5.

Courtown—GREAT BRITAIN—*House of Commons.* A bill for making a railway from the Dublin, Wicklow, and Wexford ry., to Courtown harbour, in Wexford. [Lond., 1865]. F. pp. 20.
This and the one next following, in vol. "Railway bills."

Crieff Junction — GREAT BRITAIN — *Parliament*—16 & 17 *Vict.* An act for making a railway from the Scottish Central ry., near Loaninghead, to the town of Crieff. Royal assent, 15th August, 1853. [Lond., 1853.] F. pp. ii + 18.

Darenth Valley — GREAT BRITAIN—*Parliament*—16 *Vict.* An act for making a railway from Dartford, in Kent, to Farningham. Royal assent, 28th June, 1853. [Lond.,1853.] F. pp.20.

Deeside — GREAT BRITAIN — *Parliament*—15 & 16 *Vict.* An act for enabling the D. ry. to alter the line and levels of part of their railway, and to abandon parts thereof; for altering the capital of the company, and repealing and amending the act relating thereto. Royal assent, 28th May, 1852. [Lond., 1852.] F. pp. 27.

Direct Northern. Engineer's report. Lond., 1845. O. pp. 20.

Dublin and Antrim Junction — GREAT BRITAIN—*House of Commons.* A bill as amended in committee, for making a railway from the Ulster ry. near Lisburn to the Belfast and Northern Counties ry. at Antrim. Lond., [1861]. F. pp. iii + 23.
In vol. "Railway bills."

Dublin and Bray—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act to enable the Dublin, Dundrum, and Rathfarnham ry. to extend their railway from Dundrum to Bray; and to extend the time and to continue and revive the powers granted for the compulsory purchase of lands and completion of works. Royal assent, 24th July, 1851. [Lond., 1851.] F. pp. ii + 16.

Dublin and Drogheda. Report of the directors and statement of accounts, published preparatory to the half-yearly meeting, to be held 21st Feb., 1861, 26th Feb., 1863. Dublin, [1861-63.] 2 vols. O.

—— GREAT BRITAIN — *House of Commons.* Minutes of evidence before committee, commencing 9th June to the conclusion. Evidence against bill, and in favour of inland line. Lond., 1836. F. pp. (2) + 103.

—— Minutes of evidence taken before the committee on the D. & D. ry. Lond., 1836. O. pp. iv + 834 + 17.

—— — *House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill, intituled "An act for making a railway from Dublin to Drogheda," was committed. Ordered printed, 25th July, 1836. [Lond., 1836.] F. pp. 63.

—— — *Parliament*—22 & 23 *Vict.* An act to enable the D. & D. ry. to create debenture stock, and to issue new shares for redeeming existing preference shares subject to redemption; and to enlarge their station at Dublin. Royal assent, 1st August, 1859. Lond., [1859.] F. pp. (1) + 7.
In vol. "Railway bills."

Dublin, Belfast and Coleraine Junction—GREAT BRITAIN—*House of Commons.* Report from the select committee on group (70) of railway bills: D. B. & C. J. ry. bill. 23 July, 1846. n.t.p. [Lond., 1846.] F. pp. 2247-2251.
In vol. "Railway reports. Ireland. 2."

Dublin, Wicklow and Wexford. Report of directors and statement of accounts, to be submitted to the proprietors at the 35th half-yearly general meeting, to be held 1st Feb., 1864. [Dublin, 1864.] O.

—— GREAT BRITAIN — *House of Commons.* A bill to authorize the construction, by the D. W. & W. ry., of railways in connection with their railway and the Dublin and Kingston ry. [Lond., 1865.] F. pp. (2) + 12.

Dundalk and Enniskillen. Report of the directors and statement of accounts to 30th June, 1861, for the half-yearly meeting of proprietors, to be held 30th August, 1861. Dublin, 1861. D.

—— GREAT BRITAIN — *House of Commons.* Report from the committee on the D. & E. ry. act, 1845, amendment bill. 17 May, 1847. n.t.p. [Lond., 1847.] F. pp. (1).

—— Report from the committee on group (9) of railway and canal bills: D. & E. ry. bill. 4 May, 1855. n.t.p. [Lond., 1855.] F. pp. 133-136.

—— Report from the committee on group (15) of railway bills: D. & E. ry. bill. 15 June, 1857. n.t.p. [Lond., 1857.] F. pp. 209-211.

—— Report from the committee on the D. & E. ry. bill. 13 June, 1845. n.t.p. [Lond., 1845.] F. pp. 843-857.

—— *Same.* 17 May, 1850. n.t.p. [Lond., 1850.] F. pp. (1).

—— *Same.* 5 April, 1852. n.t.p. [Lond., 1852.] F. pp. 67-70.

—— Report from the sub-committee on group (8) of railway bills: D. & E. ry. bill. 27 June, 1854. n.t.p. [Lond., 1854.] F. pp. (1.)

—— — *Parliament* — 15 *Vict.* An act to amend the acts relating to the D. & E. ry. and to extend the same from Ballybay to Enniskillen. Royal assent, May 28th, 1852. [Lond., 1852.] F. pp. ii + 17.

Dundee and Arbroath—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act to enable the D. & A. ry. to enlarge their present terminal station in Dundee, and to amend the acts relating to the company. Royal assent, 3rd July, 1851. [Lond., 1851.] F. pp. ii + 14.

Dundee and Newtyle. ACCOUNT of the D. & N. ry. Edinburgh, 1833. O. pp. 29.
Extracted from the *Quarterly journal of agriculture*, vol. 4, no. 19.

Dundrum, Foxrock and Kingstown Junction—GREAT BRITAIN—*House of Commons.* A bill to authorize the construction of a railway in the county of Dublin, to be called the D. F. & K. J. ry. [Lond., 1865.] F. pp. 18.

Durham South-West Junction — GREAT BRITAIN—*House of Commons.* Evidence in support of the bill. [Lond., 1836.] F. pp. 120.

East Anglian — GREAT BRITAIN — *Parliament*—14 & 15 *Vict.* An act for amending the acts relating to the E. A. rys. Royal assent, 24th July, 1851. Lond., [1851.] F. pp. (1) + 5.

—— — 16 & 17 *Vict.* An act for constructing a railway and landing places within the borough of King's Lynn; for regulating the share capital of the East Anglian rys. Royal assent, 15th August, 1853. [Lond., 1853.] F. pp. ii + 25.

East Grinstead — GREAT BRITAIN — *Parliament*—16 & 17 *Vict.* An act for making a railway from the London, Brighton and South Coast ry. to or near East Grinstead, in Sussex. Royal assent, 8th July, 1853. [Lond., 1853.] F. pp. ii + 16.

East Kent — GREAT BRITAIN — *Parliament*—16 & 17 *Vict.* An act for making a railway from Strood to Canterbury, with branches to Faversham quays and Chilham. Royal assent, August 4, 1853. [Lond., 1853.] F. pp. ii + 26.

East Lancashire—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act to amend the acts relating to E. L. ry., and to enable the company to increase their capital and tolls. Royal assent, 3rd July, 1851. Lond., [1851.] F. pp. (1) + 17.

—— — 16 & 17 *Vict.* An act to enable the E. L. ry. to extend their railway to Rainford; to enter into arrangements with the St. Helen's canal and ry.; and to convert their mortgage debt into annuities. Royal assent, 4th August, 1853. Lond., [1853.] F. pp. ii + 10.

Eastern Counties. Report of the committee of investigation, and minutes of evidence, with the documents in relation thereto. Lond., 1855. F. pp. xi + 107.
In vol. "Railway reports. Various."

—— GREAT BRITAIN — *Parliament* — 7 & 8 *Vict.* An act to authorise the letting on lease to E. C. ry. of the railways and works of the Northern and Eastern ry., and to give effect to certain arrangements entered into by the said companies, and to amend and enlarge some of the provisions of the acts relating to the first named company. Royal assent, 10th May, 1844. [Lond., 1844.] F. pp. 1 + 15.

—— — 15 & 16 *Vict.* An act to enable the E. C. ry. to construct a railway to the river Nene or Wisbech river below Wisbech, and to erect warehouses in connection with such railway. Royal assent, 28th May, 1852. [Lond., 1852.] F. pp. (1) + 9.

—— An act to enable the E. C. ry. to use the East Anglian railways; and to empower the E. C. ry. and the E. A. railways to enter into and carry into effect agreements for certain objects therein mentioned. Royal assent, 17th June, 1852. [Lond., 1852.] F. pp. (1) + 9.

—— — 16 & 17 *Vict.* An act to enable the E. C. ry. to construct a railway from the Northern and Eastern ry. near Stratford to Woodford and Loughton; and to repeal certain provisions of their existing acts; and to grant further powers to the said company for capitalizing their debt. Royal assent, 8th July, 1853. [Lond., 1853.] F. pp. ii + 16.

—— An act to enable the E. C. ry. to construct branch railways from the North Woolwich line to Ham Creek and the river Thames. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. (1) + 8.

Eastern Union — GREAT BRITAIN — *Parliament*—14 & 15 *Vict.* An act to facilitate intercourse between the E. U. and certain other railways; to alter certain charges upon the E. U. ry. Royal assent, 3rd July, 1851. Lond., [1851.] F. pp. (1) + 15.

—— — 15 & 16 *Vict.* An act for enabling the E. U. ry. to make arrangements with certain of their ereditors and shareholders, and with respect to their capital, and for granting additional powers to the company. Royal assent, 30th June, 1852. Lond., [1852.] F. pp. (1) + 17.

—— — 16 & 17 *Vict.* An act to enable the E. U. ry. to redeem their preference shares. Royal assent, 20th August, 1853. [Lond., 1853.] F. pp. (1) + 7.

Edinburgh and Glasgow. Plan of the proposed E. & G. ry., with a branch to Falkirk. J. U. Rastrick, parliamentary engineer, Grainger & Miller, engineers. [Lond.?] 1838. 5 *plans.* 66.5 x 98.5 cm.

—— GREAT BRITAIN — *House of Commons.* An act for making a railway from Edinburgh to Glasgow, with a branch to Falkirk. [Lond.,] 1838. F. pp. 160.

—— Committee on the E. & G. ry. bill: promoters' evidence, from 20th March to 25th April, 1837. Glasgow, 1838. F. pp. (1) + iii + 3-294.

—— Committee on the E. & G. ry. bill: opponents' evidence, from 26th April to 8th May, 1837. Glasgow, 1838. F. pp. iv + 127.

—— — *House of Lords.* Minutes of evidence taken before the select committee to whom the bill intituled "An act for making a railway from Edinburgh to Glasgow" was committed. Ordered printed, 31st May, 1838. [Lond., 1838.] F. pp. 421.

—— — *Parliament*—7 & 8 *Vict.* An act to authorise an extension of the E. & G. ry. and to amend and enlarge the provisions of the acts relating to such railway. Royal assent, 4th July, 1844. Lond., [1844.] F. pp. ii + 55.

—— — 15 *Vict.* An act to consolidate and amend certain of the acts relating to the E. & G. ry., and to grant further powers to the company of proprietors thereof. Royal assent, 17th June, 1852. [Lond., 1852.] F. pp. iii + 39.

—— — 16 & 17 *Vict.* An act to enable the E. & G. ry. to connect their line at Glasgow by branches with the Caledonian ry., and to extend their station at Cowlairs. [Royal assent,] 4th August, 1853. n.t.p. [Lond., 1853.] F. pp. (1) + 2529–2534.

—— GUIDE to the E. & G. ry., including guides to Edinburgh and Glasgow. Edinburgh, 1845. T. pp. 35. 3 *fold. maps.*

—— WILLOX, J. Guide to the E. & G. ry.; historical, topographical, and statistical, including guides to Edinburgh and Glasgow. Edinburgh, Glasgow, Lond., 1842. T. pp. (2) + v–viii + 136. 3 *fold maps.*

Edinburgh, Perth and Dundee — GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act to consolidate and amend the acts relating to the E. P. & D. ry., and to grant further powers to the said company. Royal assent, 3rd July, 1851. Lond., [1851.] F. pp. vi + 56.

—— — 16 & 17 *Vict.* An act to sanction certain arrangements between the E. P. & D. ry. and certain classes of the creditors thereof. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. iv + 47.

Fermoy and Lismore — GREAT BRITAIN — *House of Commons.* A bill for making a railway from the Great Southern and Western ry. in Fermoy, county Cork, to Lismore, county Waterford. [Lond., 1865.] F. pp. 17.

Findhorn—GREAT BRITAIN—*Parliament*—22 *Vict.* An act for making a railway from the Inverness and Aberdeen Junction ry., at or near Kinloss, to Findhorn. [Royal assent,] 19th April, 1859. [Lond., 1859.] F. pp. 101–118.

Formartine and Buchan—GREAT BRITAIN —*Parliament*—21 & 22 *Vict.* An act for making a railway from the Great North of Scotland ry. to Old Deer, and thence to Peterhead and Fraserburgh, with a branch to Ellon. [Royal assent,] 23rd July, 1858. [Lond., 1858.] F. pp. 1669–1686.

—— — 22 *Vict.* An act to enable the F. & B. ry. to divert their railway near Ellon, and to abandon the branch to Ellon. [Royal assent,] 19th April, 1859. [Lond., 1859.] F. pp. 141–144.

Forth and Clyde Junction—GREAT BRITAIN —*Parliament*—16 & 17 *Vict.* An act for making a railway, commencing by a junction with the Scottish Central ry. at Sterling, and terminating by a junction with the Caledonian and Dumbartonshire Junction ry. at Alexandria. Royal assent, August 4th, 1853. [Lond., 1853.] F. pp. ii + 21.

Frome, Yeovil and Weymouth — GREAT BRITAIN—*Parliament*—15 & 16 *Vict.* An act for incorporating and giving powers to the F. Y. & W. ry. Royal assent, June 30th, 1852. [Lond., 1852.] F. pp. ii + 13.

Furness—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for confirming an agreement entered into between the F. ry. and John Abel Smith, and for enabling the F. ry. to raise a further sum of money, and for authorising the conversion of the borrowed and preferential share capital of the F. ry. into a stock not exceeding four pounds ten shillings per centum, and for amending the acts relating to the company. Royal assent, August 4th, 1853. [Lond., 1853.] F. pp. ii + 13.

Glasgow and Ayrshire. GUIDE to the G. & A. ry., with descriptions of the Glasgow and Edinburgh, and Glasgow and Greenock railways. Ayr, Glasgow, 1841. S. pp. (2) + 110. 10 *plates*, 3 *fold. plates*, 3 *fold. maps.*

—— GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to enable the G. & S. W. ry. to make a branch railway to near Mayfield, in the county of Ayr. Royal assent, 8 July, 1853. Lond., [1853.] F. pp. (1) + 11.

Glasgow, Kilmarnock and Androssan— GREAT BRITAIN—*Parliament*—15 *Vict.* An act for the dissolution of the G. K. & A. ry. and the abandonment of their undertaking. Royal assent, 17th June, 1852. [Lond., 1852.] F. pp. 13.

Glasgow, Paisley, Kilmarnock and Ayr. Proceedings of the 1st general meeting of the shareholders, held Nov. 9, 1836. Glasgow, 1836. O.

—— GREAT BRITAIN—*House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill intituled "An act for making a railway from Glasgow to Paisley and Ayr" was committed. Ordered printed, 28th June, 1837. [Lond., 1837.] F. pp. 322.

Grand Junction. DRAKE'S road book of the Grand Junction ry., from Birmingham to Liverpool & Manchester. Birmingham, [1837.] S. pp. (4) + vii–xvi + 3–184. 1 *fold. map.*
pp. 109–184, advertisements.

—— *Same.* [2nd. ed.] Lond., [1838.] D. pp. (6) + 147 + 44. 10 *cts.*, 8 *plates*, 1 *fold. map*, 1 *fold. table.*
The 44 pp. at end are advertisements.

—— *Same.* From Liverpool & Manchester to Birmingham. Birmingham, [1837.] S. pp. (1) + vii–xvi + 17–184. 1 *fold. map.*
pp. 121–184, advertisements.

—— FREELING, A. The Grand Junction ry. companion to Liverpool, Manchester and Birmingham; and Liverpool, Manchester, and Birmingham guide; containing an account of everything worthy the attention of the traveller upon

the line. Liverpool, 1837. T. pp. (6) + 192 + viii + 193–228 + (2). 1 *fold. map.*
pp. 193–228, advertisements.

—— — Freeling's Grand Junction ry. companion. [2nd. ed.] [Lond., 1838.] T. pp. (2) + 5–192 + 32 + (4). 1 *fold. map.*
32 pp. are advertisements.

—— Osborne's guide to the Grand Junction, or Birmingham, Liverpool and Manchester ry., with the topography of the country through which the line passes. Birmingham, 1838. S. pp. iv + 378 + (12) + 136. 52 *cts.*, 5 *plates*, 2 *fold. maps.*

—— *Same.* 3d ed. Birmingham, 1840. S. pp. viii + 252. 52 *cts.*, 4 *plates*, 1 *fold. map.*

—— *Same.* 3d ed. Birmingham, 1844. S. pp. viii + (2) + 252. 52 *cts.*, 4 *plates*, 1 *fold. map.*

Great Eastern. Cassell and Co., *publishers.* The official guide to the G. E. ry., and the Harwich route to the continent, via Antwerp, Rotterdam, Hamburg, and Esbjerg. Lond., Paris & Melbourne, 1893. S. pp. (1) + 404. *illus., fold. maps.*

—— Great Britain — *House of Commons.* Minutes of evidence before a select committee on the Great Eastern Northern Junction ry. bill. [Lond., 1864.] F. pp. (3) + 165.

—— — *Parliament*—25 & 26 *Vict.* An act to amalgamate the Eastern Counties, the East Anglian, the Newmarket, the Eastern Union, and the Norfolk railway companies. [Royal assent,] 7th August, 1862. n.t.p. [Lond., 1862.] F. pp. 3801–3955.

—— Measom, G. The official illustrated guide to the G. E. ry., Cambridge line; with descriptions of some of the most important manufactories in the towns on the lines. Lond., [1865.] D. pp. xl + 365. 175 *cts.*, 1 *fold. map.*
Author's presentation ed.

—— *Same:* Colchester line. Lond., [1865.] D. pp. xxxii + 436 + (10) + 82 + 8. 204 *cts.*, 1 *fold. map.*
pp. 82 + 8, advertisments. Author's presentation ed.

Great North of England. Frewen, C. H. [Circular letter] to the shareholders. n.t p. [Lond.,] Feb. 16, 1850. sq. O. pp. 2.

Great North of Scotland—Great Britain —*Parliament*—14 & 15 *Vict.* An act to amend the act relating to the G. N. of S. ry. Royal assent, July 3rd, 1851. Lond., [1851.] F. pp. (1) + 8.

Great Northern. [Minutes of proceedings] at the first ordinary general meeting of the proprietors, held 25th July, 1846. n.t.p. [Lond., 1846.] O. pp. 4.

—— [Minutes of proceedings at 1st–13th half-yearly meeting, held 27th Feb., 1847–26th Feb., 1853, and report of directors.] n.t.p. [Lond., 1847–53.] 15 vols. O.
11th and 12th Proceedings and accounts issued separately.

—— [Minutes of proceedings] extraordinary general meeting, held 7th June, 1849. n.t.p. [Lond., 1849.] O. pp. 16.

—— Acworth, W. M. The Great Northern, North-Eastern, and Manchester, Sheffeld & Lincolnshire railways. Lond., 1888. O. pp. (20).
Extracted from *Murray's magazine*, vol. 3, April, 1888.

—— Cassell and Co., *publishers.* The official guide to the G. N. ry., and the East Coast express route between England and Scotland. Lond., Paris, Melbourne, 1894. S. pp. (1) +448. *illus., fold. maps.*

—— Great Britain—*Parliament*—14 & 15 *Vict.* An act to enable the G. N. ry. to construct stations at Knottingley and Wakefield, to increase their capital, to enlarge their London station, and to amend their acts. Royal assent, 3rd July, 1851. Lond., [1851.] F. pp. (1) + 16.

—— An act to enable the G. N. ry. to construct works in connexion with the Manchester, Sheffield and Lincolnshire ry., and to facilitate the use of that railway by the company. Royal assent, 24th July, 1851. Lond., [1851.] F. pp. (1) + 9.

—— — 16 & 17 *Vict.* An act to amend the acts relating to the G. N. ry., to authorize an increase of capital. Royal assent, 28th June, 1853. Lond., [1853.] F. pp. ii + 12.

—— Mackie, C. Itinerary of the Great Northern ry. from London to York, comprising historical and descriptive accounts of the provincial antiquities, cathedrals, on the route. Lond., [1852]. D. pp. (2) + 7–96 + 24. *frontisp.*, 1 *fold. map.*

Great Northern (Ireland)—Great Britain —*Railway Department of the Board of Trade.* Copy of the report of inquiry, and of correspondence relative to the condition of the line and rolling stock, the insufficiency of the accommodation, and the inadequacy of the train service from Dundalk to Bundoran and Londonderry, viâ Enniskillen. Ordered printed, 25 Feb., 1892. [Lond., 1892.] F. pp. 9.

Great Southern and Western (Ireland)—Report of directors, and statement of accounts, to be submitted to the proprietors at the 38th, 40th, 42d half-yearly general meeting, to be held 14th Feb., 1863, 13th Feb., 1864, 11th Feb., 1865. [Dublin, 1863–65.] 3 vols. O.

—— [Report to the directors on the Waterford extension; by John MacNeill.] n.t.p. [Dublin, Jan. 22, 1845.] O. pp. 7. 1 *fold. map*, 1 *fold. section.*

—— Speeches of Mr. St. George Burke and Mr. Hope Scott, June 4th and 17th, 1857, [before

the House of Commons select committee on railway bills, group 14; on the G. S. & W. ry. extension from Tullamore to Athlone.] Westminster, 1857. O. pp. 61.

Circular letter of the directors to the stockholders, inserted, indicating that the above pamphlet is intended as an answer to a pamphlet anonymously circulated among the stockholders.

—— GREAT BRITAIN — *House of Commons.* A bill for making railways from the G. S. & W. ry. at Thurles, to Clonmel, Lismore, Fermoy, Dungarvan and Youghal, with tramways at Dungarvan and Youghal, in connection with such railways. [Lond., 1865.] F. pp. ii + 19.

—— — *House of Lords.* Minutes of evidence taken before the select committee on the G. S. & W. and L. & C. railways bill. Ordered printed, 30th July, 1862. [Lond., 1862.] F. pp. 86.

—— Report from the select committee appointed to consider the bill intituled "An act for making a railway from the Great Southern & Western, near Naas, in county Kildare, to the town of Galway; together with the minutes of evidence. Ordered printed, 25th July, 1845. [Lond., 1845]. F. pp. (1) + 75.

—— — *Parliament*—14 & 15 *Vict.* An act to explain, amend, and enlarge some of the provisions of the acts relating to the G. S. & W. ry. and to enable the company to raise further capital, and to construct a dock or basin at Cork. Royal assent, 24th July, 1851. [Lond., 1851.] F. pp. 17.

—— — 15 & 16 *Vict.* An act for reviving and continuing the powers granted by the G. S. & W. ry., Ireland, extension act, 1847, for the compulsory purchase of lands and completion of works. Royal assent, 28th May, 1852. [Lond., 1852.] F. pp. (1) + 4.

—— — 16 & 17 *Vict.* An act to enable the G. S. & W. ry. to divert the Glanmire road lower, in the parish of St. Anne's, Shandon, in county Cork, and to make a small portion of railway in that parish. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. (1) + 7.

—— — 28 & 29 *Vict.* A bill to enable the G. S. & W. ry. to create debenture stock. [Lond., 1865.] F. pp. 3.

—— MEASOM, G. S. The official illustrated guide to the G. S. & W. ry., and an account of some of the most important manufactories in the towns on the line. Lond., [1866.] D. pp. xxiv + 410 + 88. 227 *cts.*, 1 *fold. map.*

The 88 pp. at end are advertisements.

Great Western. BAYLEY, R. Statement and correspondence relative to an agreement made by the directors [of the G. W. ry.] with the Ruabon Coal company. Lond., 1857. O. pp. 28.

MS. letter of the author to Lord St. Leonards, presenting the pamphlet, dated Brighton, Feb. 23, 1857, inserted.

—— BOURNE, J. C. The history and description of the G. W. ry., including its geology and the antiquities of the district through which it passes. Lond., 1846. F[6]. pp. (6) + 58 + 57–76. 6 *cts.*, 34 *plates*, 2 *maps.*

—— CASSELL AND CO., *publishers.* The official guide to the G. W. ry., the express route to the west of England, Wales, Ireland and the Channel Islands. New and revised ed. Lond., Paris & Melbourne, 1893. D. pp. (1) + 496. *illus.*, *fold. maps.*

—— FREELING, A. The G. W. ry. companion, and guide to the castle and town of Windsor, Eton and its college; also, a guide to Reading. Lond., [1840.] pp. (1) + v–viii + 36 + 78 + (2). 6 *cts.*, 2 *fold. maps.*

—— GREAT BRITAIN—*House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill intituled "An act for making a railway from Bristol to join the London and Birmingham ry. near London," was committed. Ordered printed, 18th June, 1835. [Lond., 1835.] F. pp. 1393.

Bd. in 2 vols.

—— — *Parliament*—7 & 8 *Vict.* An act to amend the several acts relating to the Great Western, the Cheltenham and Great Western Union and the Oxford railways, to amalgamate the two last mentioned with the G. W. ry., and to authorize the formation of certain additional works at Cheltenham. Royal assent, 10 May, 1844. [Lond., 1844.] F. pp. 2 + 36.

—— — 14 & 15 *Vict.* An act for enabling arrangements with reference to the purchase, lease or other use, by the G. W. ry., of the Wilts, Somerset and Weymouth ry., the Gloucester and Dean Forest ry., and the South Wales ry., respectively, to be effected. Royal assent, 3rd July, 1851. Lond., [1851.] F. pp. (1) + 14.

—— An act for enabling the G. W. ry. to construct a station and works at Aston-juxta-Birmingham. Royal assent, 24th July, 1851. Lond., [1851.] F. pp. (1) + 5.

—— — 15 & 16 *Vict.* An act for enabling the completion of the Wilts, Somerset and Weymouth ry. between Frome and Weymouth to be effected, and for authorizing and confirming contracts between the G. W. ry. and the Kennet and Avon Canal company, and other companies. Royal assent, 30th June, 1852. Lond., [1852.] F. pp. ii + 19.

—— An act to confer on the G. W. ry. further powers for the purchase of lands on the lines of, and for the construction of the Birmingham and Oxford Junction, and Birmingham, Wolverhampton, and Dudley railways respectively; and for the alteration of the works of part of the last-mentioned railway, and for the formation of an

extension line of railway at Wolverhampton. Royal assent, 30th June, 1852. [Lond., 1852.] F. pp. ii + 19.

—— An act to authorize traffic arrangements between the G. W. ry., the Shrewsbury and Hereford, and the Hereford, Ross and Gloucester ry. companies. Royal assent, 1st July, 1852. Lond., [1852.] F. pp. (1) + 5.

—— — 16 & 17 *Vict.* An act for enabling the G. W. ry. to construct additional lines and works, and for other purposes. Royal assent, Aug. 4th, 1853. [Lond., 1853.] F. pp. ii + 3–26.

—— — 26 & 27 *Vict.* An act for the amalgamation of the West Midland ry. with the G. W. ry. [Royal assent,] 13th July, 1863. n.t.p. [Lond., 1864.] F. pp. 1609–1658.

—— MEASOM, G. The illustrated guide to the G. W. ry. Lond., n.d. O. pp. 64. 43 *cts.* P. 80.

—— [TYRRELL, T.] To the directors of the G. W. ry. [Lond., 1850.] O. pp. 9 + (7).

Great Western and Newbury. G. W. & N. and South Western and Newbury ry. bills: the case of the promoters of the G. W. & N. bill. Lond., 1844. O. pp. (1) + viii + 3–61.

Halesworth, Beccles and Haddiscoe — GREAT BRITAIN — *Parliament* — 14 & 15 *Vict.* An act for making a railway from Halesworth to Beccles and Haddiscoe, with a branch therefrom. Royal assent, 5th June, 1851. Lond., [1851.] F. pp. 17.

Hampstead Junction — GREAT BRITAIN — *Parliament*—16 & 17 *Vict.* An act for making a railway from the London and North Western ry. at Willesden, to the North London ry., with a branch to the North and South Western Junction ry. Royal assent, August 20th, 1853. [Lond., 1853.] F. pp. ii + 29.

Hayling Bridge and Causeway—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act to enable the company of proprietors of the Hayling bridge and causeway to construct a railway from their docks and wharves at Langstone, to join the London, Brighton and South Coast ry. at Havant. Royal assent, 3rd July, 1851. [Lond., 1851.] F. pp. 13.

Hereford, Ross and Gloucester—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act for making a railway from the Gloucester and Dean Forest ry. to the city of Hereford. Royal assent, 5th June, 1851. [Lond., 1851.] F. pp. 17.

Highland—GREAT BRITAIN—*Parliament*—28 & 29 *Vict.* An act to authorize the consolidation into one undertaking of the Inverness and Perth Junction and the Inverness and Aberdeen Junction railways. [Royal assent,] 29th June, 1865. n.t.p. [Lond., 1865.] F. pp. 2341–2396.

Hull and Holderness—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to incorporate a company for making a railway from Kingston-upon-Hull to or near to Withernsea in Holderness, with a branch therefrom. Royal assent, July 8th, 1853. Lond., [1853.] F. pp. ii + 25.

Hull and Selby—GREAT BRITAIN—*House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill intituled "An act for making a railway from Kingston upon Hull to Selby," was committed. Ordered printed, 3d May, 1836. [Lond., 1836.] F. pp. 115.

Irish Great Western — GREAT BRITAIN — *House of Commons.* Minutes of evidence taken before the committee on the I. G. W. ry. and Midland Great Western ry. bills. Lond., 1846. F. pp. 197.

This and the two next following, in vol. "Railway reports. Ireland. 2."

—— Report from the select committee on the I. G. W. ry. bill. 27 June, 1845. n.t.p. [Lond., 1845.] F. pp. 1085–1092.

—— — *House of Lords.* Report from the select committee appointed to consider of the petition of James Pim jr. of Dublin, and one of the Grand Canal, Ireland, complaining that the standing orders had not been complied with on the I. G. W. ry. bill; and also certain petitions in favour of said bill; with the minutes of evidence. Ordered printed, 17th July, 1845. [Lond., 1845.] F. pp. iv + 101.

Irish North Western. Report of the directors and statement of accounts, for the half-yearly meeting of proprietors, to be held 27th Feb., 1863–25th August, 1864. Dublin, 1863–64. 4 vols. O.

—— Observations of the Board of directors on the report of the shareholders' committee, for the adjourned meeting of proprietors, to be held 4th Nov., 1863. Dublin, 1863. O. pp. 10.

—— Report of the committee of shareholders, for the adjourned meeting of proprietors, to be held 4th Nov., 1863. Dublin, 1863. O. pp. 15.

Isle of Wight—GREAT BRITAIN—*House of Lords.* [Evidence before the select committee, on the Isle of Wight ry. bill, eastern section.] n.t.p. [Lond., 1860.] O. pp. 40.

Killarney and Valencia—GREAT BRITAIN *Parliament*—14 & 15 *Vict.* An act to authorize a deviation in the line of the K. & V. ry., and to continue and revive the powers granted by the Killarney and Valencia ry. Oct., 1847, for the compulsory purchase of lands, and to extend the period by such act limited for the completion of said railway. Royal assent, 3 July, 1851. Lond., [1851.] F. pp. (1) + 8.

Killarney Junction—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act to amend the K.

J. ry. act., 1846. Royal assent, 24 July, 1851. [Lond., 1851.] F. pp. ii + 25.

Lancashire and Yorkshire. Report of the committee of consultation, appointed by the meeting of shareholders held at the Manchester Exchange, March 6th, 1850. Manchester, [1850.] O. pp. 8.
In vol. "Railway reports. Various."

—— GREAT BRITAIN—*Parliament*—15 & 16 *Vict.* An act for abandoning certain parts of the undertaking of the L. & Y. ry.; for constructing certain new works; and extending the time for completion of existing works; and for other purposes. Royal assent, 30th June, 1852. Lond., [1852.] F. pp. ii + 3-35.

—— — 22 & 23 *Vict.* An act for the amalgamation of the East Lancashire ry. with the L. & Y. ry. [Royal assent,] 13th August, 1859. n.t.p. [Lond., 1864.] F. pp. 1593-1634.

—— *and* **East Lancashire.** Agreement [statement of joint traffic and passenger receipts] Dec. 1st, 1852. Manchester, 1852. O. pp. 30.

Larne, Belfast and Ballymena—GREAT BRITAIN—*House of Commons.* Report from the select committee on the L. B. & B. ry. bill petition; with the minutes of evidence. Ordered printed, 17 July, 1846. [Lond., 1846.] F. pp. 50.
In vol. "Railway reports. Ireland. 2."

Leeds and Hull Junction. Report to the subscribers for a survey of the part of the L. & H. J. ry., between Hull & Selby; by Messrs. Walker and Burges. 28th July, 1834. Hull, [1834]. O. pp. 8. 2 *fold. maps.*

—— PARSONS, E. The tourist's companion; or, The history of scenes and places on the route by the railroad and steam packet from Leeds and Selby to Hull. Lond., Manchester, Selby, 1835. S. pp. (5) + 243. 4 *cts.*

Leeds and Selby. Report to the committee of the proposed railway from Leeds to Selby; by James Walker. July 18, 1829. Lond., 1829. O. pp. (2) + 5-24. 1 *fold. map*, 1 *fold. plan.*

Leeds, Bradford and Halifax Junction—GREAT BRITAIN—*Parliament*—15 & 16 *Vict.* An act for making a railway from the Lancashire and Yorkshire ry., near Bradford, to the railway belonging to the Lancashire and Yorkshire and London and North Western ry. companies, or one of them, near Leeds, to be called the L. B. & H. J. ry. Royal assent, 30th June, 1852. [Lond., 1852.] F. pp. 23.

—— — 16 & 17 *Vict.* An act to enable the L. B. & H. J. ry. to construct certain branch railways in the West Riding of York. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. 13.

Leeds Northern—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act for altering the name of the Leeds and Thirsk ry. to the name of the Leeds Northern ry.; for extending the time for completion of certain works; and for regulating the capital of the company. Royal assent, 3 July, 1851. [Lond., 1851.] F. pp. (1) + 17.

—— — 16 & 17 *Vict.* An act for enabling the L. N. ry. to create new shares, and raise money on loan for discharging certain liabilities. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. 7.

Leicester and Swannington—GREAT BRITAIN—*House of Lords.* Minutes of evidence taken before the Lords committees to whom was referred the bill intituled "An act for making and maintaining a railway from the termination of the L. & S. ry. in Swannington to the Ashby-de-la-Zouch ry. in Worthington. Ordered printed, 30th May, 1833. [Lond., 1833.] F. pp. 51.

Letterkenny. Report of an extraordinary general meeting of shareholders, held Feb. 17, 1863. Londonderry, 1863. O. pp. 10.

Leven—GREAT BRITAIN—*Parliament*—15 & 16 *Vict.* An act for making a railway from the Edinburgh, Perth and Dundee ry. at Thornton Junction station to the town of Leven, with branches to Kirkland Works and to the harbour of Leven. Royal assent, June 17th, 1852. [Lond., 1852.] F. pp. ii + 16.

Limerick and Ennis—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to authorize the abandonment of a portion of the undertaking of the Limerick, Ennis and Killaloe Junction ry., and the construction of a new line of railway in lieu of a portion of the line to be abandoned; and for other purposes. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. ii + 25.

Limerick and North Kerry Junction—GREAT BRITAIN—*House of Commons*—A bill to incorporate a company for making the L. & N. K. J. ry. Lond., [1865]. F. pp. (1) + 16.

Limerick and Waterford. Report of Alexander Nimmo, on the proposed railway between Limerick and Waterford. Dublin, 1826. O. pp. 39.

Limerick, Ennis and Killaloe Junction—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to enable the L. E. & K. J. ry. to lease their undertaking. Royal assent, 8th July, 1853. [Lond., 1853.] F. pp. (1) + 5.

Liverpool and Manchester. An account of the L. & M. ry.; comprising a history of the parliamentary proceedings, a description of the railway in an excursion from Liverpool to Manchester, and a popular illustration of the mechanical principles applicable to railways; also, an abstract of the expenditure from the commencement of the undertaking; by Henry Booth,

treasurer to the company. Liverpool, [1830]. O. pp. (1) + 104. 2 *plates*, 1 *fold. map*, 1 *fold. section.*

—— *Same.* Abridgement. Lond., 1830. O. pp. 26. 1 *ct.*, 1 *fold. plate*, 1 *map.*
Extracted from *Mechanics' magazine*, vol. 14. Sept. 25, 1830.

—— Two reports on the projected north line of railway from Liverpool to the Manchester, Bolton and Bury canal, near Manchester; by Charles Vignoles and Joseph Locke. Liverpool, 1835. O. pp. 32.

—— CORT, R. Rail-road impositions detected; or, facts and arguments to prove that the M. & L. ry. has not paid one per cent. nett profit. Lond., 1834. pp. viii + 9–64 + (8). 3 *fold. tables.*

—— FREELING, A. Lacey's railway companion and Liverpool and Manchester guide; describing the scenery on, and contiguous to, the railway. Liverpool, n.d. nar. T. pp. (1) + 70.

—— GREAT BRITAIN — *House of Commons.* Proceedings of the committee on the L. & M. ry. 1825. [Lond., 1825.] F. pp. xi + (1) + 772. 4 *plans*, 11 *fold. plans.*

—— — *House of Lords.* Minutes of evidence taken before the Lords committees to whom was referred the bill intituled "An act for making and maintaining a railway or tramroad from Liverpool to Manchester." Ordered printed, 18th April, 1826. [Lond., 1826.] F. pp. 323.

—— MOREAU, P. *and* NOTRÉ, A. Description raisonnée et vues pittoresques du chemin de fer de Liverpool à Manchester; publiées par P. Moreau, d'après son examen sur les lieux, les renseignemens fournis par M. Stephenson, et les documens tirés des ouvrages de ce dernier, de M. Wood, etc.; et mis en ordre par Auguste Notré. Paris, 1831. sq. Q. pp. (2) + 98. 9 *plates*, 2 *fold. plates*, 1 *fold. map.*

—— — *Same, English.* Translated by J. C. Stocker, jr. Boston, 1833. S. pp. (5) + 7–94. 2 *plates*, 3 *fold. plates*, 1 *fold. table.*

—— RAILWAY companion (The), describing an excursion along the Liverpool line, accompanied with a succinct and popular history of the rise and progress of rail-roads. Lond., 1833. O. pp. 46 + (1). 5 *fold. plates.* P. 80.

Liverpool, Crosby and Southport—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to reduce and regulate the tolls payable in respect of traffic passing between Liverpool and certain places on the L. C. & S. ry., and also the payments on tolls payable to the Lancashire and Yorkshire and East Lancashire ry. companies, in respect of traffic to and from the last-mentioned railway. Royal assent, August 20th, 1853. [Lond., 1853.] F. pp. (1) + 11.

Llanelly — GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for enabling the Llanelly ry. and dock company to make new railways. Royal assent, August 4th, 1853. [Lond., 1853.] F. pp. iii + 36.

Llynvi Valley—GREAT BRITAIN—*Parliament* —14 & 15 *Vict.* An act for amending the acts relating to the Llynvi Valley and Duffryn Llynvi and Porth Cawl rys.; and for forming a junction between such railways and the South Wales ry. Royal assent, 1st August, 1851. [Lond., 1851.] F. pp. (1) + 11.

—— — 16 & 17 *Vict.* An act for amending the acts relating to the L. V. ry., and for authorising the company to make diversions in and improve their line of railway, and construct a new branch, and for other purposes. Royal assent, August 4th, 1853. [Lond., 1853.] F. pp. ii + 3–19.

London and Birmingham—BOURNE, J. C., *and* BRITTON, J. C. Drawings of the L. & B. ry., by John C. Bourne; with an historical and descriptive account, by John Britton. Lond., 1839. F. pp. 26. 30 *plates*, 1 *map.*

—— CORNISH'S guide and companion to the L. & B. ry.; containing an account of all the towns on or near the line; the company's charges for conveyance; time of starting each train. Lond., 1839. S. pp. (3) + 90. 1 *fold. map.*
pp. 73-90, advertisements.

—— FREELING, A. The L. & B. ry. companion; containing a complete description of every thing worthy of attention on the line; list of races; and an account of the hunting and angling stations near the line; also, fare and time tables. Lond., [1837?] T. pp. (2) + v–xi + (1) + 204 + 32. 2 *figs.*, 1 *fold. map.*
32 pp. at end are advertisements.

—— *Same.* [Another ed.] Lond., [1838?] T. pp. (2) + v–xi + (5) + 200 +36. 2 *figs.*, 1 *fold. map.*
36 pp. at end are advertisements.

—— GREAT BRITAIN—*House of Commons.* Minutes of evidence taken before the committee on the L. & B. ry. Ordered printed, 2 May, 1839. [Lond., 1839.] F. pp. 125. 1 *fold. table.*

—— — *House of Lords.* Minutes of evidence taken before the Lords committees to whom was referred the bill intituled "An act for making a railway from London to Birmingham." Ordered printed, 29th June, 1832. [Lond., 1832.] F. pp. 195.

—— — *Same.* Extracts. Lond., 1832. O. pp. viii + 65. 1 *fold. map.* P. 80.

—— HAND-BOOK (A) for travellers along the L. & B. ry., with the fare and time tables, &c., corrected to the present day; and portions extracted from Roscoe's larger work on this rail-

way. Lond., [1839?] T. pp. (5) + 9–147. 3 *cts.*, 23 *plates*, 1 *fold. map.*

—— Osborne's L. & B. ry. guide. Birmingham, Lond., [1840]. S. pp. (1) + viii + 270 + 44. 43 *figs.*, 19 *plates*, 1 *fold. map.*

—— *Same.* [Another ed.] Lond., [1841?] D. pp. (1) + viii + 270. 43 *figs.*, 19 *plates*, 2 *fold. tables.*
Map lacking.

—— Railroadiana: a new history of England, or, picturesque, biographical, historical, legendary and antiquarian sketches; descriptive of the vicinity of the railroads. 1st series: L. & B. ry. Lond., 1838. D. pp. viii + 9–216. 6 *plates*, 2 *fold. plates*, 1 *fold. map in pocket.*

—— Roscoe, T. The L. & B. ry.; with the home and country scenes on each side of the line, including sketches of Kenilworth, Leamington, Warwick, Guy's Cliff, Stratford; by Thomas Roscoe, assisted in the historical details by Peter Lecount. Lond., [1839.] O. pp. (7) + 192 + (4). 29 *cts*, 18 *plates*, 1 *fold. map.*

—— W., J. W. The L. & B. ry. guide, and Birmingham and London railway companion; containing a minute description of the railroad, and every object worthy of notice within ten miles of the railroad. Lond., 1838. S. pp. viii + xiii + (2) + 179. 9 *cts.*, 2 *fold. maps.*
Cover title. "Wyld's London and Birmingham railroad guide."

London and Brighton—Great Britain—*House of Commons.* Minutes of evidence taken before the committee on the London and Brighton ry. bills; Stephenson's line. 3–10 March, 1837. Lond., 1837. 6 vols. bd. in 1. F. pp. 33; 23; 27; 17; 19; 11.

—— Minutes of evidence taken before the committee on the bill for the direct L. & B. ry., as proposed by Sir J. Rennie and J. U. Rastrick. 13 March–7 April, 1837. Lond., 1837. F. pp. 242.

—— — *House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill intituled "An act for making a railway to join the London and Southampton ry. near London, and to form a communication between London and Brighton by way of Shoreham," was committed. Ordered printed, 7th July, 1836. [Lond., 1836.] F. pp. 1072.

—— London and Brighton (The) ry. guide; containing a correct description of the railway, historical and topographical notices of the places contiguous to the various stations, and the official map and section of the line. 2nd ed. Lond., [1841?] T. pp. 54. 1 *fold. map*, 1 *fold. section.*

—— Railroads: statements and reflections thereon; particularly with reference to the proposed railroad without a tunnel, and the competition for the line between London and Brighton; by a shareholder, at the request of other shareholders. June 4, 1836. Lond., 1836. O. pp. 59.

—— Series (A) of four letters addressed to the inhabitants of Brighton, on the subject of railway communication between that town and London; by "Townsman." Brighton, 1837. O. pp. 36.

—— Talbot, C. J. Speech on summing up the engineering evidence given in support of Stephenson's line, before the committee of the House of Commons, 17th May, 1836. Westminster, [1836]. O. pp. 41.

London and Greenwich. Examination (The) examined; or, Testimony on oath proving a failure in the peers to support the L. & G. ry. Lond., 1836. O. pp. 32.

—— Raillery on a very peculiar species of railway legislation. n.t.p. [Greenwich, 1843?] Q. pp. 7.
An extravaganza on the subject of the Greenwich railway.

—— Serio-comic (A), but very important book, to m-mb-rs of P-rl-m-t, and others greatly interested: important to be read, previously to the approaching meeting, by all proprietors of the L. & G. ry. unprivileged shares. [Lond., 1842.] O. pp. (2) + 5–68.
Cover title.

—— Wood, W. P. Speech in committee of the House of Commons [on the L. & G. ry. bill.] April 2, 1840. [Lond., 1840.] O. pp. 62.

London and North Western. Ye L. & N.W. ry. of England sends greeting to ye visitors to ye World's Faire and presents this little booke of informatione. [Lond., 1893.] obl. Tt. pp. 19. *illus.*

—— Cassell and Co., *publishers.* The official guide to the L. & N. W. ry., the royal mail west coast route. New and revised ed. Lond., Paris & Melbourne, 1894. S. pp. (1) + 468. *illus., fold. maps.*

—— Great Britain—*Parliament*—15 & 16 *Vict.* An act to authorize the conversion of the debenture debt of the L. & N. W. ry. into a stock not exceeding three-and-a-half per centum; and for enlarging the stations at Wolverton and Kilburn. Royal assent, 17th June, 1852. Lond., [1852.] F. pp. 9.

—— — 16 & 17 *Vict.* An act for conferring additional powers on the L. & N. W. ry. with reference to the construction of their Oldham branch; and for making an alteration in such branch. Royal assent, 4 August, 1853. Lond., [1853.] F. pp. (1) + 9.

—— An act to enable the L. & N. W. ry. to acquire and hold certain lands and buildings at or near the terminus of the Haydon square branch of the London and Blackwall ry. Royal assent, August 4, 1853. [Lond., 1853.] F. pp. (1) + 7.

—— An act to enable the L. & N. W. ry. to construct a railway from Northampton to Market Harborough, with a branch therefrom. Royal assent, August 4th, 1853. Lond., [1853.] F. pp. 23.

—— An act to enable the L. & N. W. ry. to construct a branch railway to Saint Albans. Royal assent, August 4th, 1853. Lond., [1853.] F. pp. 9.

—— An act for enabling the L. & N. W. ry. to construct a railway from Crewe to Shrewsbury, and other works in connection with their undertaking. Royal assent, 20th August, 1853. [Lond., 1853.] F. pp. 24.

—— An act to enable the L. & N. W. ry. to make a railway to connect the Buckinghamshire ry. with the Oxford, Worcester, and Wolverhampton ry. Royal assent, 20th August, 1853. [Lond., 1853.] F. pp. (1) + 10.

—— [Head, *Sir* F. B.] Stokers and pokers; or, the L. & N. W. ry., the electric telegraph, and the Railway Clearing-House; by the author of 'Bubbles from the Brunnen of Nassau.' Lond., 1849. S. pp. (3) + 7–208.

—— Roscoe, T. Illustrated history of the L. & N. W. ry., from London to Birmingham, Liverpool, Manchester. Lond., 1847. 2 pts. in 1 vol. O. pp. (7) + 192 + (3) + 154 + (2). 29 *cts.*, 25 *plates.*

—— Shareholders' key to the L. & N. W. ry.; containing full particulars of all the subsidiary and other lines in which the proprietors of the L. & N. W. ry. are interested; by a member of the Stock Exchange. Lond., 1853. O. pp. 48.

London and Southampton. [6th half-yearly] report of the directors, August 1837. Lond., [1837]. sq. Q.

—— Freeling, A. The L. & S. ry. companion; containing a complete description of every thing worthy of attention on the line; with guides to Southampton and the Isle of Wight. Lond., 1839. T. pp. (5) + 11–191. 23 *cts.*, 2 *fold. maps*, 1 *fold. table.*

—— Great Britain—*House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill, intituled "An act for making a railway from London to Southampton," was committed. Ordered printed, 9th June, 1834. [Lond., 1834.] F. pp. 481.

—— —*Same.* Extracts. [Lond., 1834?] O. pp. (1) + 68.

London and South Western. Letter by the chairman of the L. & S. W. ry. to the shareholders, on the pending differences between the L. & S. W. and the Great Western ry. companies. Lond., 1846. O. pp. 76.

—— Blanchard, E. L. Bradshaw's descriptive guide to the L. & S. W. ry., containing a compendious account of all the many places and objects of interest along the line: to which is added, The tourist's companion to the Isle of Wight. Lond., 1845. T. pp. 97. 1 *fold. map.*

—— Great Britain—*Parliament*—16 & 17 *Vict.* An act for amending the acts passed for the construction of the Basingstoke and Salisbury ry. Royal assent, August 4th, 1853. [Lond., 1853.] F. pp. (1) + 4.

London, Brighton, and South Coast. Audit of railway accounts: letter to the proprietors; by S. Laing, [chairman]. n.t.p. [Lond., 1851.] O. pp. 16.

—— Report of the directors, to be submitted to the special general meeting of the proprietors, to be held 9th May, 1867. n.t.p. [Lond., 1867.] O. pp. 19. 1 *map.*

—— Report on the question of depreciation and on the policy of establishing a reserve fund; by S. Laing, [chairman]. n.t.p. [Lond., 1849.] O. pp. 16.

—— Address to the L. B. & S. C. ry. proprietary, on the project for removing the Crystal Palace to Sydenham, in connection with their railway; by a shareholder. Lond., [1852]. O. pp. 16.

—— Cassell and Co., *publishers.* The official guide to the L. B. & S. C. ry. and the Newhaven route to Rouen, Paris, and the Continent. Lond., Paris, & Melbourne, 1893. S. pp. (1) + 320. *illus., fold. maps.*

—— Great Britain—*Parliament*—16 & 17 *Vict.* An act to enable the L. B. & S. C. ry. to enlarge their station at London Bridge and their goods station at Brighton; and to make a branch railway to the Crystal Palace; and for converting the debenture debt into stock or shares. Royal assent, 8th July, 1853. [Lond., 1853.] F. pp. ii + 23 + (1).

London, Chatham and Dover. Report of proceedings at the 17th, 21st half-yearly general meeting of proprietors, held 30th August, 1861, 28th August, 1863. [Lond.,] 1861–63. 2 vols. O.

London, Manchester and York—Bedford. Report of the proceedings of a public meeting at Bedford, [held for the purpose of considering the desirability of promoting the passage near Bedford, of a main trunk of railway to diverge to Manchester and York.] [Bedford, 1844.] O. pp. 16. Extracted from the *Bedford mercury.*

London, Tilbury and Southend Extension—Great Britain—*House of Commons.* Report from the committee on the L. T. & S. E. ry. (increase of capital) bill, 8 Apr., 1856. n.t.p. [Lond., 1856.] F. pp. (1).

—— —*Parliament*—15 & 16 *Vict.* An act to enable the Eastern Counties and London and

Blackwall ry. companies to construct a railway with branches, to Tilbury and Southend, in Essex, and for other purposes. Royal assent, 17th June, 1852. [Lond., 1852.] F. pp. iii + 43.

Londonderry and Enniskillen — GREAT BRITAIN—*House of Commons.* Report from the committee on group (9) of railway bills: L. & E. (relinquishment of portion of line, enlargement of station of Londonderry, reduction of capital, and amendment of acts) bill. 23 May, 1848. n.t.p. [Lond., 1848.] F. pp. (1.)

This and the ten next following in vol. "Railway reports. Ireland. 2."

—— Report from the committee on the L. & E. ry. bill. 5 June, 1845. n.t.p. [Lond., 1845.] F. pp. 657-662.

—— *Same.* 20 March, 1850. n.t.p. [Lond., 1850.] F. pp. 11-13.

—— *Same.* 18 May, 1854. n.t.p. [Lond., 1854.] F. pp. 247-249.

—— *Same.* 8 April, 1856. n.t.p. [Lond., 1856.] F. pp. (1).

—— *Same.* 5 June, 1856. n.t.p. [Lond., 1856.] F. pp. (1).

—— Report from the select committee on group (70) of railway bills: L. & E. ry. (alteration and extension) bill. 23 July, 1846. n.t.p. [Lond., 1846.] F. pp. 2243-2246.

Londonderry, Enniskillen and Sligo— GREAT BRITAIN—*House of Commons.* Report from the committee on group (P) of railway bills: L. E. & S. ry. 26 April, 1853. n.t.p. [Lond., 1853.] F. pp. 149-152.

—— Report from the committee on group (P) of railway bills: L. E. & S. ry. (re-committed) bill. 3 May, 1853. n.t.p. [Lond., 1853.] F. pp. (1.)

—— [Report from the committee on the] L. E. & S. ry. (no. 2) bill. 24 June, 1853. n.t.p. [Lond., 1853.] F. pp. (1).

Loughor — GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act for extending the period for the completion of Cameron's Coal-brook Steam-Coal and Swansea and Loughor ry.; and for amending the act relating to such railway. Royal assent, 1st August, 1851. [Lond., 1851.] F. pp. (1) + 7.

Macclesfield, Knutsford and Warrington —GREAT BRITAIN—*House of Commons.* A bill for making a railway from Macclesfield to Knutsford and Warrington. [Lond., 1866.] F. pp. (3) + 5-22.

Maidstone and Ashford — GREAT BRITAIN —*House of Commons.* Special report from the select committee on the M. & A. ry. bill, with the proceedings, and minutes of evidence. Ordered printed, 22 June, 1880. [Lond., 1880.] F. pp. viii + 106.

Malton and Driffield—GREAT BRITAIN— *Parliament*—15 *Vict.* An act for enabling the M. & D. J. ry. to subscribe towards the construction of the Thirsk and Malton branch of the York, Newcastle and Berwick ry., and to make arrangements as to their capital. Royal assent, 28 May, 1852. Lond., [1852.] F. pp. (1) + 8.

Manchester and Birmingham — GREAT BRITAIN—*Parliament*—7 *Vict.* An act for enabling the M. & B. ry. to vary the line of their branch railway to Macclesfield, and to make another branch therefrom, and for amending the former acts relating to the company. Royal assent, 10th May, 1844. Lond., [1844.] F. pp. ii + 34.

Manchester and Cheshire Junction — GREAT BRITAIN—*House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill intituled "An act for making a railway from Manchester to join the Grand Junction ry. near Crewe Hall in the county of Chester," was committed. Ordered printed, 14th July, 1836. [Lond., 1836.] F. pp. 257.

Manchester and Leeds. The report of the directors and the proceedings of the proprietors, 3rd Sept., 1845; 17th Dec., 1845; 24th Jan., 1846. Manchester, 1846. 4 vols. in 1. O. pp. (2) + 5-15; 3-30; 47; 15.

—— Special report of the directors to the shareholders, relative to the Leeds and Bradford amalgamation. 9th Sept., 1846. Manchester, 1846. O. pp. 29.

—— GREAT BRITAIN — *Parliament* — 6 *Will. IV.* An act for making a railway from Manchester to Leeds. Royal assent, 4th July, 1836. [Lond., 1836.] F. pp. vi + 259.

—— — 7 *Will. IV.* An act for enabling the M. & L. ry. to vary the line of such railway, and for amending and enlarging the powers and provisions of the act relating thereto. Royal assent, 5th May, 1837. [Lond., 1837.] F. pp. 77.

—— — 2 & 3 *Vict.* An act for extending and for altering the line of the M. & L. ry. and for making branches therefrom, and for amending the acts relating thereto. Royal assent, July 1st, 1839. [Lond., 1839.] F. pp. 151.

Manchester and Salford Extension — GREAT BRITAIN—*Parliament* — 14 & 15 *Vict.* An act for making a railway from the London and North-Western ry. in Salford, across the river Irwell, into Manchester. Royal assent, 1st August, 1851. Lond., [1851.] F. pp. 26.

Manchester, Leeds and Hull Associated —GREAT BRITAIN—*Parliament*—7 *Vict.* A bill to enable the Manchester and Leeds ry. and the Hull and Selby ry. to conduct the traffic and business of their railways in conjunction. [Lond., 1844.] F. pp. (1) + 12.

Manchester, Sheffield and Lincolnshire. Report of the committee of investigation, appointed 27th Feb., 1850. n.t.p. [Manchester, 1850.] O. pp. 49 + (1).

—— GREAT BRITAIN — *House of Commons.* Promoters' statement in support of the third reading at the meeting of the House, 28th June. [Lond., 1864?] F. pp. 2.
In vol. "Railway bills."

—— — *Parliament*—16 & 17 *Vict.* An act for altering and extending the line of the Barnsley branch of the M. S. & L. ry.; for extending the time for the completion of certain works at Sheffield; for amending the acts relating to the company. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. (1) + 10.

Mawddwy. Cheap seven day excursions to Towyn. Dinas Mawddwy, 1894. broadside. D.

—— Cheap through fares to Dinas Mawddwy. Oswestry, [1894]. broadside. nar. Q.

—— Combined trips by rail and coach across the Merionethshire mountains, through the historical Bwlchoerddrws Pass, under Cader Idris, passing Torrent Walk. Oswestry, [1894.] broadside. nar. F.

—— A guide to Dinas Mawddwy; by Charles Ashton. Aberystwyth, [1893.] D. pp. 37. 2 *plates.*

—— Time table, on and after Oct. 1st, 1894. Oswestry, 1894. broadside. F[5].

Middlesbrough and Guisbrough — GREAT BRITAIN—*Parliament*—15 *Vict.* An act for making a railway from the Middlesbrough and Redcar ry. near Middlesbrough, to or near to Guisbrough, with branches to the Cleveland Hills, and for making arrangements with the Stockton and Darlington ry. Royal assent, 17th June, 1852. Lond., [1852.] F. pp. ii + 3–18.

Midland. Diagram sections. n.t.p. [Derby, 1874.] 4 sheets folded in vol. D.

—— Pocket guide. American ed. [Lond., 1894?] D. pp. 93. *illus.*, 1 *fold. map.*

—— [Time table.] N. Y., 9/29/94. folder. nar. O.

—— CASSELL AND CO., *publishers.* The official guide to the M. ry. Lond., Paris & N. Y., 1883. S. pp. (2) + 5–376. *illus., fold. maps.*

—— *Same.* New ed. Lond., Paris & Melbourne, 1894. S. pp. (1) + 432. *illus., fold. maps.*

—— GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act to regulate and increase the capital of the M. ry., and to confirm and legalize the creation and issue of certain fifty pound shares and the application of the proceeds of such shares. Royal assent, 3rd July, 1851. [Lond., 1851.] F. pp. 19.

—— An act to authorize the acquisition of the Leeds and Bradford ry., and to empower the M. ry. to raise money for such purpose. Royal assent, 24th July, 1851. Lond., [1851.] F. pp. 27.

—— An act to extend the time for the purchase of certain lands and completion of works authorized, 1848. Royal assent, 24th July, 1851. Lond., [1851.] F. pp. 10.

—— — 16 & 17 *Vict.* An act to empower the M. ry. to create new shares, or to grant annuities, for the extinguishment of their debenture debt. Royal assent, June 14th, 1853. Lond., [1853.] F. pp. 8.

—— An act to enable the M. ry. to make a line of railway from near Leicester to the Great Northern ry. near Hitchin, with a branch, in lieu of a branch authorised 1847 and 1848. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. iii + 32.

—— LETTER (A) to John Ellis, chairman of the M. ry., on the Leeds and Bradford lease. Lond., 1851. O. pp. (2) + 5–56.

—— WILLIAMS, F. S. The Midland ry.: its rise and progress; a narrative of modern enterprise. Lond., [1875.] O. pp. (3) + vii–xii + 700. 119 *cts.*, 7 *maps.*

Midland Counties. Book of reference, containing the names of the owners or reputed owners, lessees, and occupiers of various lands herein described and also delineated on the map of the intended M. C. ry., through which lands the railway is intended to pass. Nov. 28th, 1835. Charles Vignoles, engineer. n.p., [1835]. obl. F. pp. (3) + 87.

—— BABINGTON, M. A letter; in reply to observations on the subject of the M. C. ry., by N. W. Cundy. Leicester, [1835.] O. pp. 14.

—— GREAT BRITAIN — *Parliament* — 6 *Will. IV.* An act for making a railway, with branches, commencing at the London and Birmingham ry., in Rugby, county of Warwick, to communicate with the towns of Leicester, Nottingham, and Derby. Royal assent, 21st June, 1836. [Lond., 1836.] F. pp. 202.
Interleaved.

—— — 1 & 2 *Vict.* An act for amending and enlarging the provisions of the act relating to the M. C. ry., and for making a branch therefrom to Mountsorrel, in Leicester. Royal assent, 4 July, 1838. [Lond., 1838.] F. pp. 22.

—— — 4 *Vict.* An act for granting further powers to the M. C. ry. Royal assent, 10th August, 1840. Lond., [1840.] F. pp. 7.

—— — 7 & 8 *Vict.* An act to consolidate the North Midland, Midland Counties, and Birmingham and Derby Junction railways. Royal assent, 10th May, 1844. Lond., [1844.] F. pp. 2 + 98.

—— GUIDE (A) or companion to the M. C. ry.; containing its parliamentary history, engineering facts; with a description of every thing worthy of attention on, and in the vicinity of the line; also, fare and time tables. Leicester, 1840. D. pp. 11 + (2) + 9-110 + 84. 21 *cts.*, 5 *plates*, 1 *fold. map.*, 1 *fold. table.*
84 pp. of advertisements at end.

—— MIDLAND Counties ry. companion (The); with topographical descriptions of the country through which the line passes; and time, fare, and distance tables. Nottingham, Leicester, 1840. D. pp. (12) + 135 + (13) + 166. *illus.*, 1 *fold. map.*
166 pp. of advertisements at end.

Midland Great Western (Ireland)—GREAT BRITAIN—*House of Commons.* A bill to define the capital of the M. G. W. ry., to enable the company to create preference shares. [Lond., 1865.] F. pp. 12.
This and the one next following, in vol. "Railway bills."

—— A bill to repeal the enactments concerning contribution by certain baronies in Roscommon and Galway to the M. G. W. ry. Lond., [1865.] F. pp. (1) + 12.

—— Report from the committee on group (9) of railway bills: M. G. W. ry. of Ireland (deviation in line from Mullingar to Athlone) bill. 23 May, 1848. [Lond., 1848.] F. pp. (2).

Mid-Wales. Report of the directors and statement of accounts for the half-year, 30th June, 1860–31st Dec., 1868. [Lond., 1860-68.] 17 vols. F.

—— BROUGHTON, F. [*Manuscript:* Evidence on the condition of the M. W. ry. In Parliament, session 1869-70.] n.p., [1869.] F. pp. (28).

—— GREAT BRITAIN—*House of Lords.* An act to revive and extend the time limited by "The Mid-Wales railway (western extensions) act, 1865," for the compulsory purchase of lands and completion of works, and to abandon the formation of the railways authorized by "The Mid-Wales railway act, 1864," and "The Mid-Wales railway (eastern extension) act, 1865," respectively, and to enable the Mid-Wales railway company to use certain other railways. [Lond., 1869.] F. pp. (1) + 8.

—— Minutes of evidence taken before the select committee on the Mid-Wales railway bill. 21st April, 1869. [Lond., 1869.] F. pp. 7–24.

Monkland—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act to authorize certain deviations of the Slamannan and Borrowstouness ry. Royal assent, 3rd July, 1851. [Lond., 1851.] F. pp. 10.

Monmouthshire. New Monmouthshire railway from Newport to Nanty-Glo and Blaenafon, through Pontypool; [paper, explanatory of the objects of the undertaking, submitted to the Board of Trade by R. J. Blewitt, chairman of the provisional committee]. n.t.p. [Newport, Oct. 14th, 1844.] O. pp. 31.

—— GREAT BRITAIN—*Parliament*—15 & 16 *Vict.* An act for enabling the M. ry. and canal company to make certain new railways. Royal assent, June 30th, 1852. [Lond., 1852.] F. pp. ii + 19.

—— 16 & 17 *Vict.* An act for enabling the M. ry. and canal company to make new railways. Royal assent, August 15th, 1853. [Lond., 1853.] F. pp. ii + 25.

Newcastle and Darlington Junction—GREAT BRITAIN—*Parliament*—7 & 8 *Vict.* An act authorising the sale of the Durham Junction ry. to the N. & D. J. ry., and for enabling the company to make a station at Gateshead, with a bridge to connect the last-mentioned railway with Newcastle-upon-Tyne. Royal assent, 23 May, 1844. Lond., [1844.] F. pp. ii + 35.

Newcastle and Edinburgh. Mr. Stephenson's report to the committee appointed for the promotion of a railway from Newcastle to Edinburgh. n.t.p. [1838.] O. pp. 33. 1 *fold. plan.*

—— *Same.* [Another ed.] n. t. p. [1838.] pp. 22.

Newmarket—GREAT BRITAIN—*Parliament*—15 & 16 *Vict.* An act to enable the N. ry. to make certain alterations in the levels of their railway, and to construct a new line of railway between Newmarket and Bury St. Edmunds. Royal assent, 17th June, 1852. [Lond., 1852.] F. pp. 13.

Newport, Abergavenny and Hereford—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to authorise deviations at Hereford and near Pontypool, of the N. A. & H. ry.; and to amend the acts relating to that railway. Royal assent, 4th August, 1853. Lond., [1853.] F. pp. ii + 9.

—— An act to authorise the N. A. & H. ry. to make deviations on their extension to the Taff Vale ry., and to make certain short branches. Royal assent, 4th August, 1853. Lond., [1853.] F. pp. ii + 10.

Newry and Enniskillen—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to enable the N. & E. ry. to extend their railway to the landing quay at Newry, to effect a junction with the Dublin and Belfast Junction ry. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. ii + 8.

Norfolk—GREAT BRITAIN—*Parliament*—15 & 16 *Vict.* An act for defining and regulating the capital of the N. ry.; and for authorizing arrangements with the Halesworth, Beccles, and Haddiscoe ry. Royal assent, 28th May, 1852. [Lond., 1852.] F. pp. (1) + 15.

North and South Western Junction—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for enabling the N. & S. W. J. ry. to construct

a branch to near Hammersmith, and to raise additional capital. Royal assent, June 28th, 1853. Lond., [1853]. F. pp. iii + 29.

North British — GREAT BRITAIN — *House of Commons.* A bill (as amended in committee) to authorise a deviation in one of the Carlisle Citadel station branches of the N. B. ry.; and to extend the time for the purchase of land and completion of one of that company's authorised lines near Edinburgh; and to make provision with respect to the undertaking, capital, and borrowing powers of that company. [Lond., 1867.] F. pp. iii + 33.

—— — *Parliament*—7 & 8 *Vict.* An act for making a railway from Edinburgh to Berwick-upon-Tweed, with a branch to Haddington. Royal assent, 4th July, 1844. Lond., [1844.] F. pp. iii + 173.

—— — 14 & 15 *Vict.* An act for enabling the N. B. ry. to enlarge their station at Edinburgh, and to make short railways there and at Dalkeith. Royal assent, 5th June, 1851. Lond., [1851.] F. pp. 14.

—— — 16 & 17 *Vict.* An act to confirm certain preference shares created by the N. B. ry.; and to make better provision for the payment of the debts of the company. Royal assent, July 8th, 1853. [Lond., 1853.] F. pp. (1) + 11.

—— — 21 & 22 *Vict.* An act for consolidating and amending the acts of the N. B. ry., and for authorizing alterations in the Leith and Fisherrow or Musselburgh branches thereof. [Royal assent,] 23d July, 1858. [Lond., 1858.] F. pp. 1689–1732.

—— — 25 & 26 *Vict.* An act for amalgamating the North British ry. and the Edinburgh, Perth and Dundee ry. and the West of Fife ry. [Royal assent,] 29th July, 1862. n.t.p. [Lond., 1862.] F. pp. 2833–2860.

—— — 28 & 29 *Vict.* An act to provide for a complete union of the undertakings of the North British, and Edinburgh and Glasgow ry. companies by amalgamation. [Royal assent,] 5th July, 1865. n.t.p. [Lond., 1866.] F. pp. 4817–4866.

—— [LYTHGOE, J. P.] Observations on the policy of the directors, and the financial position of the company; by a late accountant of the company. Manchester, 1868. O. pp. 20.

North-Eastern — GREAT BRITAIN — *Parliament*—17 & 18 *Vict.* An act to dissolve the York and North Midland and Leeds Northern railway companies, and to vest their undertakings in the York, Newcastle, and Berwick ry. company, to be thenceforth called "The North-Eastern ry. company," and to alter the constitution of that company, and to authorize working arrangements with the Malton and Driffield Junction ry., and the amalgamation of that company with such united company. [Royal assent,] 31st July, 1854. n.t.p. [Lond., 1854.] F. pp. 3553–3587.

—— LANGLEY, J. B. The illustrated official guide and tourist's hand book to the N. E. ry. and its branches; with notices of the various objects of interest on either side of the line and in the towns en-route. Newcastle-upon-Tyne, 1863. D. pp. (2) + 5–231. *illus., fold. maps.*

—— LEATHER, J. W. Letter to Mr. Alderman Kitson, on the proposed new central railway station, and the lines projected by the N. E. ry. for connecting the lines on the western and eastern sides of Leeds. Leeds, 1864. O. pp. 20. 1 *fold. map,* 1 *fold. section.*

"Edw. C. Baines with Jno. W. Leather's compts."

North Liverpool. Report on the proposed line of railway from the Manchester & Bolton ry. to the north end of Liverpool; by Messrs. Walker and Burges. 24th Feb., 1835. Westminster, 1835. O. pp. 8. 2 *fold. maps.*

North Midland—GREAT BRITAIN—*House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill, intituled "An act for making a railway from Leeds to Derby," was committed. Ordered printed, 6th June, 1836. [Lond., 1836.] F. pp. 151.

North Western — GREAT BRITAIN — *Parliament*—15 & 16 *Vict.* An act for consolidating into one act and amending the provisions of the several acts relating to the N. W. ry.; for extending the time for constructing certain parts of their undertaking, and granting further powers to the company. Royal assent, 30th June, 1852. Lond., [1852.] F. pp. iii + 81.

Northern and Eastern. Report of the directors to the proprietors, at their first general meeting, 5th August, 1836. Lond., 1836. O.

Norwich and Spalding—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for making a railway from Spalding to Sutton bridge and Wisbeach. Royal assent, 4th August, 1853. Lond., [1853.] F. pp. iii + 34.

Oxford and Great Western Union—GREAT BRITAIN—*House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill intituled "An act for making a railway from Oxford to join the Great Western ry. near Didcot, with a branch therefrom to Abingdon," was committed. Ordered printed, 5th May, 1837. [Lond., 1837.] F. pp. 248.

—— Minutes of evidence taken before the select committee to whom the bill intituled "An act for making a railway from Oxford to join the Great Western ry. near Didcot," was committed. Ordered printed, 26th June, 1838. [Lond., 1838.] F. pp. 302.

Oxford, Worcester and Wolverhampton—GREAT BRITAIN—*House of Commons.* Minutes of evidence taken before the select committee on the O. W. & W. ry., and Oxford and Rugby railway bills. Ordered printed, 10th June, 1845. F. pp. 581.

—— —*Parliament*—15 & 16 *Vict.* An act to amend and enlarge the powers and provisions of the acts relating to the O. W. & W. ry.; to extend the time for the completion of the works, and the purchase of certain lands; to authorize deviations in the line and works, and the construction of certain branches and works. Royal assent, 30th June, 1852. [Lond., 1852.] F. pp. ii + 20.

—— —16 & 17 *Vict.* An act to extend the periods limited for completing and for purchasing lands for the Stratford-upon-Avon and Kingswinford branches of the O. W. & W. ry., to construct a branch railway to Stourbridge; and to authorize the raising of certain sums of money by preferential shares. Royal assent, 20th August, 1853. [Lond., 1853.] F. (1) + 12.

Peebles—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for making a railway from Hawick branch of the North British ry., near to the Eskbank station, to Peebles. Royal assent, 8th July, 1853. [Lond., 1853.] F. pp. ii + 17.

Pontop and South Shields—GREAT BRITAIN—*Parliament*—7 *Vict.* An act for enabling the P. & S. S. ry. to widen a part of their railway, and to make a branch therefrom. Royal assent, 23 May, 1844. [Lond., 1844.] F. pp. (1) + 46.

Port Carlisle—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to authorise the abandonment of the Carlisle canal, and the making of a railway in lieu thereof, from the Newcastle-upon-Tyne and Carlisle ry. at Carlisle to Port Carlisle; to re-incorporate the company; and for other purposes. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. 3 + 50.

Portadown and Dungannon—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to extend and amend the powers and provisions of the P. & D. railway act, 1847. Royal assent, June 28th, 1853. [Lond., 1853.] F. pp. (1) + 5.

Portadown, Dungannon and Armagh Junction—GREAT BRITAIN—*House of Lords.* [*Manuscript:*] Minutes of proceedings taken before the select committee on the P. D. & A. J. ry. bill. 8 March, 1860. [Lond., 1860.] F. pp. (3) + 198.

This and the one next following, in vol. "P. D. & O.; Co. Down & Bangor rys. Session 1860. Evidence."

Portadown, Dungannon and Omagh Junction—GREAT BRITAIN—*House of Lords.* [*Manuscript:*] Minutes of evidence taken before the select committee on the P. D. & O. J. ry. bill. 13 March, 1860. [Lond., 1860.] F. pp. 73.

Portsmouth—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for making a railway from Havant to Godalming, to be called "The Portsmouth ry." Royal assent, July 8th, 1853. Lond., [1853.] F. pp. ii + 21.

Redruth and Chasewater—GREAT BRITAIN—*Parliament*—16 *Vict.* An act to enable the R. & C. ry. to construct new works. Royal assent, May 9th, 1853. [Lond., 1853.] F. pp. iii + 30.

Roscrea and Parsonstown Junction—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for making a railway from the Great Southern and Western ry. near Roscrea to Parsonstown. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. ii + 18.

St. George's Harbour and Railway—GREAT BRITAIN—*House of Commons.* Report and evidence before the select committees, on harbours of refuge and shipwrecks, port charges of Liverpool. Lond., 1836. O. pp. 53. 2 *fold. plates.*

"The railway," pp. 7-13.

St. Helen's—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to enable the St. Helen's canal and ry. company to extend their railway to Rainford, and to enlarge their stations at Sutton. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. ii + 14.

St. Ives and West Cornwall Junction—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for making a railway from Saint Ives to the West Cornwall ry., at or near Saint Erth; and for making arrangements with the West Cornwall ry. Royal assent, August 4th, 1853. [Lond., 1853.] F. pp. ii + 17.

Salisbury and Yeovil. RUEGG, L. H. The history of a railway. Sherborne, 1878. O. pp. (2) + 66.

Scottish Central—GREAT BRITAIN—*Parliament*—14 *Vict.* An act to enable the S. C. ry. to raise a further sum of money. Royal assent, 5th June, 1851. [Lond., 1851.] F. pp. 11.

—— —16 *Vict.* An act to enable the Scottish Central ry. to convert their mortgage and bond debt into debenture stock. Royal assent, 14th June, 1853. [Lond., 1853.] F. pp. 10.

Severn and Wye—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to enable the S. & W. ry. to improve their railway and harbour, and for other purposes. Royal assent, 15th August, 1853. [Lond., 1853.] F. pp. ii + 14.

Severn Valley—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for making a railway from the Oxford, Worcester and Wolverhampton ry near Hartlebury, in Worcester, to the borough of Shrewsbury, in Salop, with a branch to be called "The Severn Valley ry." Royal assent, August 20th, 1853. [Lond., 1853.] F. pp. ii + 20.

Sheffield and Rotherham—GREAT BRITAIN —*House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill intituled "An act for making a railway from Sheffield to Rotherham" was committed. Ordered printed, 8th July, 1835. [Lond., 1835.] F. pp. 385.

Sheffield, Ashton-under-Lyne and Manchester—GREAT BRITAIN—*Parliament*—7 & 8 *Vict.* An act to enable the S. A.-under-L. & M. ry. to make a branch railway to Ashton-under-Lyne and Staly-bridge; and to alter and enlarge the powers of the said company. Royal assent, 19th July, 1844. [Lond., 1844.] F. pp. (1) + 56.

Sheffield, Rotherham, Barnsley, Wakefield, Huddersfield and Goole—GREAT BRITAIN — *Parliament* — 14 & 15 *Vict.* An act to authorize deviations between Sheffield and Barnsley; and to amend the acts relating to the said railway. Royal assent, 3rd July, 1851. [Lond., 1851.] F. pp. (1) + 9.

Shrewsbury and Birmingham — GREAT BRITAIN — *House of Commons.* Minutes of evidence [before the] select committee on railway bills: group 11. 26th May, 1851. Lond., [1851.] O. pp. 108.

—— — *Parliament*—15 & 16 *Vict.* An act to authorise the use by the S. & B. ry. of the Navigation street station in Birmingham. Royal assent, 1st July, 1852. [Lond., 1852.] F. pp. (1) + 8.

Shrewsbury and Chester—GREAT BRITAIN —*Parliament*—14 & 15 *Vict.* An act to authorize the S. & C. ry. to abandon the Crickheath and Wem branches; to construct a station at Birkenhead; to enter into arrangements with other companies. Royal assent, 7th August, 1851. [Lond., 1851.] F. pp. 24.

—— — 15 & 16 *Vict.* An act to authorize the S. & C. ry. to construct additional branches, [and] to purchase or hire steamboats. Royal assent, 30th June, 1852. [Lond., 1852.] F. pp. 23.

—— PARRY, E. The railway companion from Chester to Shrewsbury; containing a descriptive and historical account of the various attractive and interesting objects that present themselves on this line. Chester, [1849.] nar. T. pp. 138. 1 *fold. map.*

Somersetshire Central—GREAT BRITAIN—*Parliament*—15 & 16 *Vict.* An act for making a railway from Highbridge to Glastonbury. Royal assent, 17th June, 1852. [Lond., 1852.] F. pp. ii + 25.

South Devon—GREAT BRITAIN—*Parliament* —14 & 15 *Vict.* An act for facilitating the conversion by the S. D. ry. of loan into capital, and for enabling the company to effect arrangements between different classes of shareholders; for the creation of new shares. Royal assent, 3rd July, 1851. Lond., [1851.] F. pp. 15.

South Eastern. General statement of the position and projects of the company. 1845–6. Lond., [1846.] nar. O. pp. 45. 1 *fold. map.*

—— CASSELL AND CO., *publishers.* The official guide to the S. E. ry., and the royal mail route to Paris, India, and the colonies. Lond., Paris, Melbourne, 1893. S. pp. (1) + 336. *illus., fold. maps.*

—— GREAT BRITAIN — *House of Commons.* Speech of Mr. Austin, on behalf of the S. E., North Kent lines, before the select committee, May 4th and 5th, 1846. Lond., [1846.] O. pp. 138. P. 41.

—— — *Parliament*—7 *Vict.* An act to enable the S.-E. ry. to make a railway from the S.-E. ry., near Ashford, to Canterbury, Ramsgate and Margate, and to join the Canterbury and Whitstable ry. Royal assent, 23rd May, 1844. Lond., [1844.] F. pp. 45.

—— An act to enable the S -E. ry. to complete and maintain a branch railway and approach to the harbour of Folkestone and to construct other works in connexion with the harbour; and also to effect alterations and extensions of the works of the Maidstone branch of the S.-E. ry.; and to amend the acts relating to the company. Royal assent, 4th July, 1844. Lond., [1844.] F. pp. 30.

—— — 15 & 16 *Vict.* An act for merging the undertaking of the Reading, Guildford and Reigate ry. in the undertaking of the S.-E. ry.; and for the dissolution of the Reading, Guildford and Reigate ry. Royal assent, 17th June, 1852. Lond., [1852.] F. pp. iii + 5–29.

—— — 16 & 17 *Vict.* An act for dissolving the Canterbury and Whitstable ry. and for vesting in the S.-E. ry. the undertaking of the South-Eastern and Continental steam packet company. Royal assent, 4th August, 1853. Lond., [1853.] F. pp. 12.

—— An act for reviving the powers of the S.-E. ry. for taking lands and buildings for the purpose of enlarging their London Bridge station. Royal assent, 4th August, 1853. Lond., [1853.] F. pp. 11.

—— An act to enable the S.-E. ry. to extend the Reading, Guildford and Reigate ry. to the Great Western ry. at Reading. Royal assent, 4th August, 1853. Lond., [1853.] F. pp. 8.

—— An act to enable the S.-E. ry. to make a railway from Strood to Maidstone. Royal assent, 4th August, 1853. Lond., [1853.] F. pp. ii + 3–25.

—— MEASOM, G. The official illustrated guide to the S. E. ry. and all its branches. Lond., [1853?] D. pp. (6) + 104 + 32. 32 *cts.*

—— PHIPPEN, J. Colbran's new guide for Tunbridge Wells. 2nd ed. Tunbridge Wells, Lond., 1844. D. pp. (2) + v–x + 353 + 4. 1 *plate*.

pp. 327-353: "Descriptive particulars of the South Eastern (London and Dover) ry.; by James Phippen."

—— REMARKS on the proposed Bromley branch; by a South-Eastern proprietor. Lond., 1854. O. pp. 10.

—— SOUTH-EASTERN (The) railway manual: describing the cities, towns and villages on or near the line; with historical, topographical and biographical notes. Lond., 1850. D. pp. (3) + vii–xvi + 243.

—— WESTERTON, C. Bradshaw's pleasure guide to the S. E. ry.; with an account of the remarkable castles, priories, and other places of interest and antiquity, near which it passes, in its way from London to Dover. Lond., 1844. T. pp. iv + 5–53.

South-Eastern Brighton, Lewes and Newhaven — GREAT BRITAIN — *House of Commons*. Minutes of evidence on the S.-E. B. L. & N. ry. 10–17 April, 1837. Lond., 1837. F. pp. (2) + 148.

South Staffordshire—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act for enabling the S. S. ry. to make a certain branch railway; for authorizing arrangements with the London and North Western ry. Royal assent, 24 July, 1851. Lond., [1851.] F. pp. (1) + 12.

South Wales—GREAT BRITAIN—*Parliament* —14 & 15 *Vict.* An act to ratify and confirm certain subscriptions and payments made by or on behalf of the S. W. ry. to other railway companies. Royal assent, 3rd July, 1851. [Lond., 1851.] F. pp. 10.

—— An act to enable the S. W. ry. to make a new railway in the Forest of Dean; to construct new lines at Cardiff and Britton Ferry; and to make an alteration in the line and levels of the railway. Royal assent, 3rd July, 1851. [Lond., 1851.] F. pp. 19.

—— — 15 *Vict.* An act to enable the S. W. ry. to construct new railways to Milford Haven and at Newport; and to abandon portions of the lines from Fishguard and at Haverfordwest. Royal assent, 17th June, 1852. [Lond., 1852.] F. pp. ii + 20.

—— — 16 & 17 *Vict.* An act for authorising the S. W. ry. to deviate the line of their railway in the Forest of Dean. Royal assent, August 20th, 1853. [Lond., 1853.] F. pp. (1) + 10.

—— An act for granting further powers in reference to the leasing and selling the undertaking of the S. W. ry. to the Great Western ry., and authorizing working arrangements between the said companies. Royal assent, August 20th, 1853. Lond., [1853.] F. pp. (1) + 5.

—— An act to enable the S. W. ry. to extend the Pembroke line of their railway to Pennar Mouth, and to make a deviation in their Pembroke line. Royal assent, August 20th, 1853. Lond., [1853.] F. pp. ii + 25.

South Wales Mineral — GREAT BRITAIN — *Parliament*—16 & 17 *Vict.* An act for making a railway from the S. W. ry. at Britonferry to Glyncorrwg in Glamorganshire. Royal assent, 15th August, 1853. [Lond., 1853.] F. pp. ii + 17.

South Western. [WYLD's] South Western, or London, Southampton and Portsmouth ry. guide. Lond., [1839?] T. *illus., fold. maps.*

South Yorkshire—GREAT BRITAIN—*Parliament*—15 & 16 *Vict.* An act to enable the S. Y. ry. and River Dun company to transfer their undertaking to the Great Northern ry. Royal assent, 30th June, 1852. Lond., [1853.] F. pp. (1) + 14.

Southampton. ADVANTAGES (The) and profits of the Southampton ry. analysed. Lond., 1834. O. pp. 58.

—— SOUTHAMPTON and Bristol united by direct railway communication. Southampton, [1854.] O. pp. 16.

Southampton, Manchester and Oxford Junction. [334 allotment letters from the secretary of the company, to the subscribers. [Lond., 1845.] bd. in 1 vol. sq. Q.

—— [256 letters and bills of the S. M. & O. J. ry.] [Lond., 1845.] bd. in 1 vol. Q.

Staines, Wokingham and Woking Junction — GREAT BRITAIN—*Parliament* — 16 & 17 *Vict.* An act for making a railway from Staines to Wokingham and Woking. Royal assent, July 8th, 1853. [Lond., 1853.] F. pp. ii + 27.

Stamford and Essendine—GREAT BRITAIN —*Parliament*—16 & 17 *Vict.* An act for making a railway from Stamford Baron, in Northampton, to the Great Northern ry. at Essendine. Royal assent, 15 August, 1853. [Lond., 1853.] F. pp. ii + 18.

Stirling and Dunfermline—GREAT BRITAIN —*Parliament*—9 & 10 *Vict.* An act for making a railway from Stirling to Dunfermline, with branches to Tillicoultry and to Alloa Harbour. [Royal assent,] 16th July, 1846. [Lond., 1846.] F. pp. 3625–3638.

Stockton and Darlington—GREAT BRITAIN —*House of Lords.* Minutes of evidence taken before the Lords committees to whom was referred the bill intituled "An act to enable the company of proprietors of the Stockton and Darlington ry. to make a branch therefrom in the counties of Durham and York; and to amend and enlarge the powers and provisions of the several

acts relating thereto." Ordered printed, 1st May, 1828. [Lond., 1828.] F. pp. 218.

—— — *Parliament*—14 *Vict.* An act for empowering the S. & D. ry., and their lessors, the Wear Valley ry., and the Middlesbrough and Redcar ry., to raise more money. Royal assent, 20 May, 1851. Lond., [1851.] F. pp. (1) + 9.

—— — 15 *Vict.* An act for increasing the capital of the S. & D. ry. Royal assent, 28th May, 1852. Lond., [1852.] F. pp. (1) + 11.

—— JEANS, J. S. Jubilee memorial of the railway system: a history of the S. & D. ry. and a record of its results. Lond., 1875. O. pp. (3) + vii–xvii + (2) + 315. 6 *plates.*

Suir and Shannon Junction. SMYTH, G. L. An exposition of the expenditure, revenue, and general advantages of the proposed railroad from Limerick to Waterford, with a distinct terminus at Carrick-on-Suir. Lond., Dublin, Limerick, 1836. O. pp. 35. P. 59.

Taff Vale—GREAT BRITAIN—*House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill, intituled "An act to enable the T. V. ry. to alter the line of the railway and the act relating thereto, and to make additional branches," was committed. Ordered printed, 28th April, 1837. [Lond., 1837.] F. pp. 65.

—— — *Parliament*—7 & 8 *Vict.* An act to amend the acts relating to the T. V. ry.; to authorize the alteration of certain works thereby authorized, and the formation of additional works; and to enlarge the powers of the company. Royal assent, 19 July, 1844. [Lond., 1844.] F. pp. (1) + 22.

Taw Vale— GREAT BRITAIN — *Parliament*— 14 & 15 *Vict.* An act for authorizing certain deviations in the T. V. ry. Royal assent, July 24th, 1851. [Lond., 1851.] F. pp. 28.

Ulster. Report of the directors to the 55th, 56th half-yearly general meeting of proprietors, 10th Feb., 12th Aug., 1864. Belfast, 1864. 2 vols. O.

—— Conveyance of goods to Enniskillen, Cavan, Belturbet, Newtownbutler. Belfast, 19th June, 1858. broadside. O.

"In consequence of the serious delay in the transit of goods by the present routes, the Ulster ry. company have made arrangements for a special service of carts, . . ." Signed by F. Broughton, general manager.

—— Report of the directors to be submitted to the proprietors, at an extraordinary meeting of the company, to be held 17th Nov., 1858, on a proposed extension of the line to Clones. Belfast, 1858. O. pp. 8. 1 *fold. map.*

—— GREAT BRITAIN—*House of Commons.* Report from the committee on group (9) of railway and canal bills: 27 April, 1855. Ulster ry. (extension from Armagh to Monaghan &c.) bill. n.t.p. [Lond., 1855.] F. pp. 111–113.

This and the five next following, in vol. "Railway reports. Ireland. 2."

—— Report from the committee on group (13) of railway bills: 18 April, 1856. Ulster ry. bill. n.t.p. [Lond., 1856.] F. pp. (1).

—— Report from the committee on the Ulster canal and railway union bill. 10 April, 1851. n.t.p. [Lond., 1851.] F. pp. 85–87.

—— Report from the committee on the Ulster ry. extension bill. 23 May, 1845. n.t.p. [Lond., 1845.] F. pp. 401–406.

—— Report from the select committee on the Ulster Extension ry. (re-committed) bill, 9 June, 1845. n.t.p. [Lond., 1845.] F. pp. (1.)

—— Supplement to the votes and proceedings of the House of Commons: report on Ulster ry. bill. 30 March, 1836. n.t.p. [Lond., 1836.] F. pp. 515–522.

Ulverstone and Lancaster—GREAT BRITAIN —*Parliament*—14 & 15 *Vict.* An act for making a railway from the Furness ry. at Ulverstone to the Lancaster and Carlisle ry. at Carnforth. Royal assent, July 24th, 1851. [Lond., 1851.] F. pp. ii + 27.

Vale of Neath — GREAT BRITAIN — *House of Commons.* A bill for authorising the V. of N. ry. to make and maintain lines of railway at Swansea, and to raise further moneys and for giving effect to agreements between them and the Aberdare Valley ry. and the London and North Western ry. [Lond., 1865.] F. pp. (2) + 28.

2 MS. letters inserted: S. F. Noyes to F. Broughton and F. Broughton to S. F. Noyes.

—— A bill for the amalgamation of the V. of N. ry. with the Great Western ry. [Lond., 1866.] F. pp. (3) + 34.

—— Minutes of evidence [V. of N. ry. transfer bill], 12th–15th June, 1865. [Lond., 1865.] F. pp. 117.

—— Minutes of proceedings, 12th, 15th June, 1865. [Lond., 1865.] 2 vols. F. pp. 19; 14.

—— Petition of Mid-Wales ry. against the [V. of N. ry. transfer] bill. [Lond., 1866.] F. pp. 3.

5 MS. letters from and to S. F. Noyes, counsel, and F. Broughton, general manager, of Mid-Wales ry., inserted.

—— [*Manuscript:*] Proposed clauses [in V. of N. ry. transfer bill] on behalf of Mid-Wales ry. [Lond., 1866.] F. pp. 6.

MS. copy.

—— — *Parliament*—15 *Vict.* An act to enable the V. of N. ry. to construct certain extensions of their lines of railway. Royal assent, May 28th, 1852. [Lond., 1852.] F. pp. ii + 11.

—— — 28 & 29 *Vict.* An act for authorizing the V. of N. ry. to raise further moneys, and for

giving effect to agreements between them and the Aberdare Valley ry. and the London and North-Western ry. [Royal assent,] 5th July, 1865. n.t.p. [Lond., 1865.] F. pp. 5117–5132.

—— — 29 & 30 *Vict.* An act for the amalgamation of the V. of N. ry. with the Great Western ry. [Royal assent,] 10th August, 1866. n.t.p. [Lond., 1866.] F. pp. 5597–5644.

Wakefield, Pontefract and Goole—GREAT BRITAIN—*House of Lords.* Reply to Mr. Wilkins, as counsel, on behalf of the promoters of the bill, July 23, 1845. York, 1845. D. pp. (1) + 40.

Warrington and Altrincham Junction—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act for making a railway from Warrington to Altrincham, with a branch to join the Birkenhead, Lancashire and Cheshire Junction ry. at Lower Walton. Royal assent, 3rd July, 1851. [Lond., 1851.] F. pp. ii + 3-35.

—— — 16 & 17 *Vict.* An act to enable the W. & A. J. ry. to make deviations and branches at Warrington, and to use certain neighbouring railways. Royal assent, 20th August, 1853. [Lond., 1853.] F. pp. iii + 34.

Warrington and Newton—GREAT BRITAIN —*House of Lords.* Minutes of evidence taken before the Lords committees to whom was referred the bill intituled "An act to enable the W. & N. ry. to extend the railway from the termination thereof at Bank Quay, in Warrington, in the county of Lancaster, to Norton, in the county of Chester." Ordered printed, 29th August, 1831. [Lond., 1831.] F. pp. (2) + 5–39.

Warrington and Stockport—GREAT BRITAIN —*Parliament*—16 & 17 *Vict.* An act to enable the Warrington and Altrincham Junction ry. to extend to Stockport. Royal assent, 4th August, 1853. [Lond., 1853.] F. pp. ii + 17.

Waterford and Kilkenny—GREAT BRITAIN —*Parliament*—14 & 15 *Vict.* An act to amend the several acts relating to the W. & K. ry. to enable the said company to sell or lease their undertaking and to purchase or lease the bridge over the river Suir, at Waterford. Royal assent, August 7th, 1851. [Lond., 1851.] F. pp. ii + 17.

Waterford and Limerick. 36th half-yearly report and statement of accounts to be submitted by the directors to the shareholders, 28th August, 1863. [Lond., 1863.] O.

—— GREAT BRITAIN—*House of Commons.* A bill to authorise the W. & L. ry. to sell or lease their undertaking to the Great Western ry. or to the Dublin, Wicklow and Wexford ry., or either or both of them. [Lond., 1865.] F. pp. ii + 13.

—— — *Parliament*—14 & 15 *Vict.* An act to authorize a deviation in the line of the W. & L. ry. and to amend the acts relating thereto. Royal assent, 24th July, 1851. [Lond., 1851.] F. pp. ii + 32 + (1).

Waterford and Passage—GREAT BRITAIN— *House of Commons.* A bill to enable the W. & P. ry. to make an extension of their railway near Waterford; to extend the time limited for the purchase of lands, and completion of works. Lond., [1865.] F. pp. (1) + 10.

Waterford and Wexford Junction—GREAT BRITAIN—*House of Commons.* A bill to incorporate a company for making the W. & W. J. ry. [Lond., 1865.] F. pp. ii + 16.

Waterford, Lismore and Fermoy—GREAT BRITAIN—*House of Commons.* A bill to authorize the construction of railways from Waterford to Dungarvan and Lismore, in Waterford, and Fermoy, in Cork. [Lond., 1865.] F. pp. 19.

Waterford, Wexford, Wicklow and Dublin—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act to authorize the abandonment of a portion of the W. W. W. & D. ry., and the construction of a new line in lieu of a portion of the line to be abandoned, and for other purposes. Royal assent, 24th July, 1851. Lond., [1851.] F. pp. ii + 17.

Waveney Valley—GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act for constructing a railway from the Tivetshall station of the Eastern Union ry. to Bungay, in Suffolk. Royal assent, 3rd July, 1851. Lond., [1851.] F. pp. ii + 8.

—— — 16 & 17 *Vict.* An act to enable the W. V. ry. to extend their railway from Bungay to Beccles. Royal assent, 4th August, 1853. [Lond., [1853.] F. pp. ii + 11.

Wellington and Severn Junction—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act for making a railway from Wellington to Coalbrookdale, and an extension to the river Severn, all in the county of Salop. Royal assent, 20 August, 1853. Lond., [1853.] F. pp. ii + 21.

West Cork—GREAT BRITAIN—*House of Commons.* A bill to enable the W. C. ry. to raise additional capital; to maintain certain portions of their railway constructed beyond the authorized limits; to extend the time limited for completion of works. [Lond., 1865.] F. pp. (1) + 11.
This and the one next following, in vol. "Railway bills."

West Cornwall—GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to enable the W. C. ry. to make certain new railways. Royal assent, August 15th, 1853. [Lond., 1853.] F. pp. ii + 23.

West Hartlepool. REVELATIONS in Parliament, with the true state of the W. H. harbour and railway company's capital account, and shorthand notes of the decision of the committee; addressed to the share and debenture holders. Lond., [1861.] O. pp. 51.

West Midland—GREAT BRITAIN—*Parliament*—23 *Vict.* An act for the amalgamation of the Newport, Abergavenny and Hereford and the Worcester and Hereford ry. companies with the Oxford, Worcester, and Wolverhampton ry., under the name of "The West Midland ry. company." [Royal assent,] 14th June, 1860. n.t.p. [Lond., 1860.] F. pp. 1041–1070.

—— — 26 & 27 *Vict.* An act for the amalgamation of the W. M. ry. with the Great Western ry. n.t.p. [Lond., 1864.] F. pp. 1609–1658.

Wexford Junction—GREAT BRITAIN—*House of Commons.* A bill to authorize the construction of a railway from the Bagnalstown and Wexford ry., at Ballywilliam, in Wexford, to the authorized extension of the Dublin, Wicklow and Wexford ry. in the parish of Ballyhoge. [Lond., 1865.] F. pp. 19.

Whishaw and Coltness—GREAT BRITAIN—*Parliament*—9 & 10 *Vict.* An act to enable the W. & C. ry. to make a branch to Murdieston, with a branch to Goodockhill. [Royal assent,] 16th July, 1846. [Lond., 1846.] F. pp. 3701–3706.

Whitby and Pickering. BELCHER, H. Illustrations of the scenery on the line in the north eastern part of Yorkshire, from drawings by G. Dodgson; with a short description of the district and undertaking, by H. Belcher. Lond., 1836. Q. pp. viii + 115. 8 *cts.*, 7 *plates.*

Whitehaven and Furness Junction — GREAT BRITAIN—*Parliament*—16 & 17 *Vict.* An act to enable the W. & F. J. ry. to make branch railways. Royal assent, August 4th, 1853. [Lond., 1853]. F. pp. ii + 14.

—— LINTON, J. A handbook of the W. & F. ry., being a guide to the lake district of West Cumberland and Furness. Lond., Whitehaven, 1852. S. pp. (4) + 134. 12 *plates*, 1 *fold. map.*

Wimbledon and Croydon—GREAT BRITAIN —*Parliament*—16 & 17 *Vict.* An act for making a railway from Wimbledon to Croydon, in Surrey. Royal assent, July 8th, 1853. [Lond., 1853.] F. pp. ii + 21.

Worcester and Hereford—GREAT BRITAIN —*Parliament*— 16 & 17 *Vict.* An act for making a railway from Worcester to Hereford, with certain branches therefrom. Royal assent, August 15th, 1853. [Lond., 1853.] F. pp. iii + 5–38.

Wycombe — GREAT BRITAIN — *Parliament*— 15 & 16 *Vict.* An act to revive and extend the time for the execution of certain powers conferred by the W. ry. act, 1846, and for reducing the capital of the W. ry., and for enabling the company to enter into arrangements with the Great Western ry. Royal assent, June 30th, 1852. [Lond., 1852.] F. pp. 12.

Yarmouth and Norwich—GREAT BRITAIN— *Parliament*—7 *Vict.* An act to amend and enlarge some of the provisions of the act authorizing the construction of the Y. & N. ry.; and to authorize the construction of certain new works in connexion therewith. Royal assent, 10 May, 1844. [Lond., 1844.] F. pp. (1) + 16.

York and North Midland. 23d, 24th, 26th –28th half-yearly general meeting of the proprietors, Feb. 21, Aug. 21, 1848, 6th Sept., 1849, 28th Feb., 28th Aug., 1850. [York, 1848–50.] 5 vols. Q. and F.

—— Report of the directors, to be submitted to the 28th half-yearly meeting of proprietors, to be held 28th Aug., 1850. [York, 1850.] F.

—— [Circular of the directors to the stockholders.] n.t.p. [York, 19th Oct., 1849.] sq. O. pp. 3.

—— *Same.* n.t.p. [York, 22nd Oct., 1849.] sq. O. pp. 3.

—— [Circular to the shareholders respecting the chairmanship of the Board of directors.] n.t.p. [York, 1849.] Q. pp. (2).

—— 1st–4th report of the committee of investigation, to be laid before the meeting of the shareholders, 12th July, 6th Sept., 31st Oct., 29th Nov., 1849. York, 1849. 5 vols. bd. in 1. Q. and O.

3rd report in two parts.

—— [Statement of the financial condition of the ry., by the directors.] n.t.p. [York, Nov. 14, 1848.] F. pp. 3.

—— GREAT BRITAIN — *Parliament* —15 *Vict.* An act to enable the Lancashire and Yorkshire, and York and North Midland ry. companies to enter into arrangements as to the working and management of portions of their railways. Royal assent, 17th June, 1852. Lond., [1852.] F. pp. 10.

—— — 15 & 16 *Vict.* An act for amalgamating the East and West Yorkshire Junction ry., with the Y. & N. M. ry., and for vesting the undertaking of the former company in that of the latter. Royal assent, 28th May, 1852. [Lond., 1852.] F. pp. 16.

—— An act for enabling the Y. & N. M. ry. to make a railway to the Victoria or East dock, at Hull. Royal assent, 30th June, 1852. [Lond., 1852.] F. pp. 22.

—— — 16 & 17 *Vict.* An act to authorise the re-issue of certain of the shares in the capital of the Y. & N. M. ry., called Hull and Selby purchase, &c., shares. Royal assent, August 4th, 1853. [Lond., 1853.] F. pp. (1) + 8.

York, Newcastle and Berwick — GREAT BRITAIN—*Parliament*—14 & 15 *Vict.* An act for enabling the Y. N. & B. ry. to abandon a portion of their Bishop Auckland branch and substitute in lieu thereof a new line of railway, and to extend the time for the completion of works on certain

lines of railway in the county of Durham. Royal assent, 24 July, 1851. Lond., [1851.] F. pp. 2 + 13.

—— An act for facilitating the transmission to and from the Y. N. & B. ry. of the traffic of the Byers Green branch of the Clarence ry.; for enabling the Y. N. & B. ry. to hold shares in the West Durham ry.; for granting further powers to their lessors, the Great North of England, Clarence and Hartlepool Junction ry., and the Hartlepool dock and ry. company, in reference to their capital. Royal assent, 24 July, 1851. Lond., [1851.] F. pp. (1) + 18.

—— — 15 *Vict.* An act for enabling the Y. N. & B. ry. to make a deviation in the line of their Thirsk and Malton branch, and to enable the Malton and Driffield Junction ry. to subscribe towards and enter into agreements with respect to the said branch. Royal assent, 28 May, 1852. Lond., [1852.] F. pp. (1) + 8.

—— An act for enabling the Y. N. & B. ry. to make a deviation in the line of their Bishop Auckland branch, to extend the time for the purchase of lands and completion of works on certain lines of railway authorized to be made in the county of Durham. Royal assent, 17 June, 1852. Lond., [1852.] F. pp. (1) + 10

c. Maps.

Betts's new itinerant and commercial map of England & Wales, on which the various lines of railroad, the turnpike & principal cross roads, with the courses of the rivers and canals, are carefully laid down. Lond., 1842. Scale, [12 m. = in.] Size, 89.2 x 72.7 cm., folded to sq. D.

Black's road & railway travelling map of Scotland. Edinburgh, n.d. Scale, [10 m. = in.] Size, 79 x 56.2 cm., folded to S.
Cover title.

[Bradshaw's] map & sections of the railways of Great Britain; by George Bradshaw. Manchester, Lond., 1st mo. 14, 1839. Scale, [10 m. = in.] Size, 160.3 x 70 cm., folded to O.
Accompanied by:

—— Tables of the gradients to Bradshaw's map of the railways of Great Britain; containing particulars of the lengths, levels, and gradients, of all the principal railways in the kingdom. Manchester, Lond., 1839. O. pp. (2) + 5–30 + (1).

Bradshaw's map of the railways, canals, navigable rivers & mineral districts of Great Britain. Revised and corrected by W. R. Botham. Lond., [1850?] 3 pts. Q. Scale, [*ca.* 6 m. = in.] Size, 182.8 x 122.3 cm., folded to Q.
Sub-map: northern continuation of Scotland. Scale, [11.5 m. = in.] Size, 40 x 48.5 cm.
"Reduced from the Ordnance Survey."

Bradshaw's map of the railways in Great Britain, showing also the line of navigation from the principal sea ports to both home and foreign stations. [Manchester,] 1843. Scale, [28 m. = in.] Size, 41.9 x 32.9 cm., folded to S.

Bradshaw's map of the railways of England and Wales with part of Scotland; presented to the subscribers to *Bradshaw's railway gazette;* Oct., 1845. Lond., and Manchester, [1845.] Scale, [10.53 m. = in.]. Size, 106.6 x 70.5 cm.
"Reduced from the Ordnance Survey."

Cheffins's map of the English and Scotch railways. 3rd ed. Lond., Liverpool, n.d. Scale, [13.5 m. = in.] Size, 67 x 67.3 cm., folded to D.
Sub-map of the principal railways in Scotland. Size, 9.6 x 18.6.

—— *Same.* 6th ed. Lond., Liverpool, n.d.
Scale, size and sub-map in 6th and 1848 eds. as in 3rd ed.

—— *Same.* 1848 ed. Lond., Liverpool, [1848.]

Cheffins's map of the railways in Great Britain. Lond., and Liverpool, 1847. Scale 10 m. = in. Size, 126.5 x 86.4 cm., folded to D
"From the Ordnance Surveys."

Cruchley, G. F. New map of the railways and steam communications of England, Wales and Scotland; showing the whole of the railways that have been proposed, and those that are in progress. Lond., [1840?] Scale, [19.31 m. = in.] Size, 65.8 x 49.8 cm., folded to D.
Cover title. Sub-map of Scotland, on half the scale. Size, 19.3 x 17.7 cm.

Great Britain—*House of Commons.* [Committee on railway bills,] group, 5: plan showing existing and projected lines. [Lond., 1847.] Scale, [1 m. = in.] Size, 55 x 96.5 cm., folded to nar. O.

Lloyd's topographical [county and railway] map of the British Isles. Lond., and N. Y., 1866. O. Scale, 12.5 m. = in., 1 : 792,000. Size, 102.2 x 126.8 cm.
Sub-map: continuation of Scotland. Size, 37.5 x 51 cm.
Accompanied by:

—— Numerical and alphabetical index to the railways in actual operation in the British Isles, to Jan., 1866. N. Y., and Lond., 1866. sq. D. pp. (3) + 25.

Macaulay, Z. Station map of the railways in Great Britain, designed by Z. Macaulay and corrected by the companies. 3rd. ed. Lond., 1854. Scale, 10 m. = in. Size, 126 x 84.2 cm., folded to nar. O.

Mogg, E. Map of the environs of Birmingham, Liverpool, Manchester, the Potteries and Preston; exhibiting all the various railways in their vicinity; May 1, 1839. [Lond., 1839.] Scale, [1.8 m. = in.] Size, 65.1 x 25.1 cm., folded to S.
Attached to cover is a table of stations and distances on the line of the Liverpool and Manchester ry. 1 sheet folded.

Reynolds, J. A new map of England, Wales, and part of Scotland; drawn from the late surveys of the different counties; showing the rail & turnpike roads, rivers & navigable canals; and pointing out the distance from London to every principal town. [Lond., 1845.] Scale, [17.39 m. = in.] Size, 69 x 48.4 cm., folded to nar. O.

Tuck's map of the railways of England and Wales, open for traffick, in course of construction and projected. Lond., [1847.] Scale, [*ca.* 13.5 m. = in.] Size, 70 x 56 cm., folded to D.

Attached to cover is:

Railway compendum to Tuck's map, showing the length and termini of all railways in England and Wales for which acts have been obtained. 1 sheet folded.

Walker, J. Map of the inland navigation, canals, and railroads throughout Great Britain, from actual surveys. Accompanied by a book of reference, compiled by Joseph Priestley. Wakefield & Lond., Jan. 1, 1830. Scale, [*ca.* 6 m. = in.] Size, 181.2 x 147.6 cm., folded to sq. Q.

Sub map: continuation of Scotland. Scale, [12.3 m. = in.] Size, 39.5 x 47.7 cm.

"Projected on the basis of the trignometrical survey of the Board of Ordnance."

In case. "Map. Navigation & railroads."

Walker, J. *and* **C.** A geological map of England and Wales, showing also the inland navigation by means of rivers and canals, together with the rail roads & principal roads. Lond., Dec. 18, 1835. Q. [Scale, 61.3 m. = in.] Size, 117 x 96.2 cm.

Subjoined "Section from the Land's End to the German Ocean."

In case "Geology, railroads &c. of England and Wales."

—— A geological map of England, Wales, and part of Scotland, showing also the inland navigation, with the railroads & principal roads. Lond., Mar. 15, 1838. Scale, 13.7 m. = in. Size, 89.8 x 61.7.

Geological & mineralogical section from the Land's End to the German Ocean, and from Whitehaven in Cumberland to the English Channel at Brighton. Map and sections colored to show geological disposition.

Williams, R. P. [Stanford's] railway map of England & Wales, showing the districts served by each railway system and all the railways in operation or sanctioned. Lond., 1872. 4 pts. Scale, [5 m. = in.] Size, 202.3 x 165.2 cm., folded to O.

Wyld, J. A new map of Great Britain; particularly showing the inland navigation, by the canals and principal rivers; with the railways, finished and in progress. Lond., 1837. Scale, [15 m. = in.] Size, 70.7 x 54.3 cm., folded to D.

Sub-map: Supplement to Scotland. Scale, [30 m. = 7/8 in.] Size, 15.4 x 18.9 cm.

—— *Same.* Lond., 1841. Scale, [15 m. = in.] Size, 70.2 x 54.4 cm.

—— Railway map of Great Britain; compiled from the plans deposited according to the standing orders of Parliament. [Lond., 1847 ?] Scale, [*ca.* 18.3 m. = in.] Size, 81 x 55.3 cm., folded to T.

Attached to cover is: List of railways completed, in course of construction, and of railway bills deposited in Private bill office, 1846. 1 sheet folded.

VI. ITALY.

Bassi, F. La linea Brembana. Milano. 1891. O. pp. 28. P. 21.

Bologna - Pontassieve. Mattei, S. Sulla ferrovia direttissima da Bologna al Pontassieve, come resulta dal progetto dell'ing. Antonio Zannoni. Firenze, 1888. O. pp. 22. P. 21.

Bologna - Roma. Zannoni, A. Comitato Bolognese: la direttissima Bologna-Roma: progetto. Bologna, 1888. F. pp. (1) + 71. 1 *fold. map*, 4 *fold. profiles.*

Bossi, C. Carta delle strade ferrate italiane coll'indicazione della divisione delle reti. 3ª ed. [Milano, 1885?] Scale, 1 : 900,000. Size, 132 x 110.8 cm.

Brescia-Milano. Pessina, F. Risposta all' articolo del Sig. ingegnere Paleocapa inserito nella *Gazzetta privilegiata* di Venezia il 6 luglio, e riprodotto nella *Gazzetta privilegiata* di Milano il 16 detto mese, col titolo: "Richiamo sul voto della Commissione per la decisione della linea di strada ferrata fra Brescia e Milano." Milano, 1841. O. pp. (2) + 5–15. P. 73.

Cadorna, C. Della strada ferrata da Genova alla Svizzera ed in ispecie del tronco di essa da Novara al Lago Maggiore. Torino, 1853. O. pp. 198 + xxxii. 1 *fold. map.*

[Carta delle] ferrovie e tramways di Lombardia. n.p., 1890. Scale, [5 klm. = in.] Size, 49.5 x 68 cm.

Chelli, G. E. Le nostre ferrovie: origine e costituzione delle reti ferroviarie italiane: i contratti d'esercizio e l'ordinamento amministrativo delle strade ferrate del Mediterraneo. Milano, 1889. O. pp. (2) + 5–117. 1 *fold. table*, 6 *fold. maps.*

Cuneo-Ventimiglia. Strada ferrata per il colle di Tenda. n.t.p. [Torino, printed, 1885?] O. pp. 61. P. 21.

"Ai Signori Presidenti dei consigli provinciali di Torino, Cuneo, Porto-Maurizio."

Firenze-Ravenna. Antonelli, G. Delle vere condizioni degli andamenti per via ferrata da Firenze a Ravenna per Faenza e per Forlì. Firenze, 1861. O. pp. 92. 1 *fold. map.* P. 73.

Franceschini, L. Della necessità di aprire una strada ai prodotti agricoli della media montagna in comunicazione colla via ferrata sul Reno. Bologna, 1860. [*sic*] O. pp. 16. P. 21.

"Memoria letta alla Società agraria nell' ultima seduta ordinaria delli 26 Maggio, 1861."

Gallarate-Sesto-Calende. Possenti, C. La ferrovia Gallarate-Sesto-Calende: alla seduta della Camera dei Deputati del 15 Marzo 1862. Milano, 1862. O. pp. 32. P. 73.

Genova - Milano. Bruschetti, G. Sulla strada ferrata da Milano a Genova per Pavia, Gravellone, Mezzanacorte e Casteggio. Milano, 1858. O. pp. 11. M. 7.

Genova - Voghera - Pavia - Milano — Pavia (*Provincia*). Progetto di ferrovia transappenninica Genova-Voghera-Pavia-Milano. Pavia, 1878. Q. pp. xxxvi + (2) + 5–257 + (2). 2 *fold. maps*, 1 *fold. table.*

Grimaldi, — Discorsi pronunziati alla Camera dei Deputati nella discussione del progetto di legge sulle nuove costruzioni ferroviarie. Roma, 1879. O. pp. (1) + 562. 2 *fold. tables.*

Italia (L'): orario del movimento treni e piroscafi nel regno e stati limitrofi. Anno 15, Aprile 1894. Firenze, [1894.] S.

Italy. Rendiconto degl' esercizi. 1860, 1861, e 1862. n.p., n.d. F. pp. (7) + iii–xxvii + 124.

—— — *Ministero dei Lavori Pubblici.* Relazione sulle strade ferrate italiane. Anno 1868. Firenze, 1870. F. pp. 219. 1 *fold. map.*

—— Relazione statistica sulle costruzioni e sull' esercizio delle strade ferrate italiane a tutto l' anno 1875–1877. Roma, 1876–78. 3 vols. bd. in 1. sq. Q.

—— — *Ministero del Tesoro e Ministero dei Lavori Pubblici.* Istruzioni sul servizio delle obbligazioni ferroviarie emesse a forma del regolamento approvato col R. decreto 16 Novembre, 1886, ed in esecuzione della legge 27 Aprile, 1885. Roma, 1888. O. pp. 73. P. 72.

—— — *R. Ispettorato Generale delle Strade Ferrate.* Carta delle strade ferrate italiane al 1° aprile 1891: pubblicata per cura del R. Ispettorato Generale delle Strade Ferrate dall' Istituto Cartografico Italiano. Roma, [1891]. Scale, 1 : 1,500,000. Size, 79.6 x 62.6 cm.

Lampugnani, G. Costituzione generale della amministrazione ferroviaria italiana. Torino, 1887. Q. pp. (2) + 51. 2 *fold. maps.* M. 2.
"Estratto dalla pubblicazione: Costruzione ed esercizio delle strade ferrate."

Lampugnani, L. Notizie e studi sulla questione dell' esercizio delle strade ferrate in Italia. Roma, 1883. D. pp. 123. P. 72.
"Estratto dal *Giornale dei lavori pubblici e delle strade ferrate.*"

Lodigiani, G. B. Sul completamento economico della rete ferroviaria italiana. Codogno, 1875. Q. pp. 18 + (1). 1 *fold. map*, 1 *fold. table.*

Loria, L. L'esercizio delle ferrovie italiane. Torino, 1877. O. pp. 31. P. 72.

Lucas, F. Les chemins de fer de l' Italie: leur histoire, leur exploitation et leurs tarifs. Paris, 1883. O. pp. (2) + 190.
"Ouvrage publié par ordre de M. le Ministre des Travaux publics. Mission accomplie en 1882."

Meridionali, Strade ferrate. Assemblea generale ordinaria del 10 giugno 1871, 26 maggio 1888–28 maggio 1892: relazione del consiglio amministrazione. Firenze, 1871–92. 6 vols. Q.

Mestre-Trento. Tatti, L. Progetto d'una ferrovia da Mestre a Trento per Bassano. [Milano, 1865.] Q. pp. (3) + 5–35.
"Alla spettabile congregazione municipale di Venezia rappresentante il comitato promotore per la costruzione di una ferrovia da Mestre a Trento per Bassano."

Mortara-Vigevano. Strada ferrata da Mortara a Vigevano: preliminari di convenzioni. Vigevano, 1851. Q. pp. 7. M. 7.

Navone, C. Succursale alla ferrovia dei Giovi e linea Genova-Borgotaro in armonia coll' assetto della rete Ligure. Genova, 1878. Q. pp. (2) + 3–33 + (2). 2 *fold. maps*, 1 *fold. table.* M. 7.

Osnago, C. La questione ferroviaria in Brianza ed il progetto di ferrovia nella valle del Lambro degli ingegneri Cesare Osnago ed Elia Tagliabue: considerazioni. Dicembre 1878. Milano, 1879. Q. pp. 59. 1 *fold. map*, 1 *fold. plate.* M. 7.

Padova, Treviso, Vicenza, (*Provincie*). Relazione sulle strade ferrate Padova-Bassano, Treviso - Vicenza, Vicenza - Thiene-Schio. Vicenza, 1879. O. pp. vii + 196 + (3) + 458 + (7). 1 *fold. map.*, 8 *fold. tables.*

Parma, Spezia, (*Provincie*)—*Comitato Interprovinciale.* Sui progetti di ferrovia da Parma a Spezia e Sarzana e da Modena a Pescia e Lucca; osservazioni del maggior generale Lombardini e dell'ing. E. Artom. Roma, 1876. O. pp. (7) + 9–99. 1 *fold. map.* P. 73.

Petitti, C. I. Delle strade ferrate italiane e del migliore ordinamento di esse: cinque discorsi. Capolago, 1845. O. pp. 651 + (1). 1 *fold. map.*

Rimini-Ravenna-Ferrara-Verona. [Verona, Ferrara, Ravenna, (*Provincie.*)] Relazione della Commissione ferroviaria provinciale nominata con deliberazione consigliare 18 gennaio 1872. Verona, 1872. O. pp. 28. M. 2.
"Commissari delle provincie e comuni interessati al progetto della ferrovia" R.-R.-F.-V.

Sansoni, F. Sulla convenienza di una nuova ferrovia nella provincia di Reggio Calabria. Reggio Calabria, 1885. O. pp. 39. P. 68.
Cover title.

Seismit-Doda, A. Di una possibile accorciamento nelle communicazioni ferroviarie fra Napoli e l'alta Italia: considerazioni e proposte. Roma, 1886. D. pp. 21. 1 *fold. map.* P. 68.
"Estratto dal *Giornale dei lavori pubblici e delle strade ferrate.*"

Torino-Ciriè-Lanzo. Assemblea generale or-

dinaria del 19 aprile 1883–31 marzo 1892. Torino, 1883–92. 10 vols. O.

—— Proposta di riforma e riordinamento dell'attuale statuto: adunanza generale straordinaria 25 giugno 1889. Torino, 1889. O. pp. (3) + 6–29.
Cover title.

Torino-Novi. Rendiconto presentato dall' Azienda generale delle strade ferrate circa l'esercizio fatto sul tronco da Torino a Novi nell' anno 1850. [Torino, 1851.] Q. pp. (1) + 5–82. M.7.

Treviglio-Coccaglio. Bosco, B. dal. Ferrovia diretta Treviglio-Coccaglio. Milano, 1872. O. pp. 28. P. 73.

Treviso-Belluno. [Tatti, L.] Progetto di una ferrovia da Treviso per Feltre e Belluno. n.t.p. [Milano, 15 agosto 1867.] O. pp. 22. 1 *fold. map.* M. 7.
"Estratto dal *Giornale dell' ing. arch. ed agron.*, anno. 15."

Tucci, P. di. Per una nuova congiunzione ferroviaria direttissima tra Roma ed il mezzogiorno d'Italia. Roma, 1884. O. pp. (6) + 9–77. P. 21.

Venezia-Milano. Strada ferrata da Venezia a Milano: [atti officiali della società]. Venezia, 1837. sq. Q. pp. (5) + 11–77 + (2). 2 *fold. plates.* M. 7.

—— Cattaneo, C. Rivista di varii scritti intorno alla strada ferrata da Milano a Venezia. Milano, 1841. O. pp. 68. P. 73.
"Inserito nel 4 vol. del *Politecnico* di Milano."

—— Milani, G. Risposta all' opuscolo del Carlo Cattaneo, per la parte di quell' opuscolo che si riferisce al progetto per una strada a guide di ferro da Milano a Venezia dell' ingegnere Suddetto. Milano, 1841. Q. pp. (2) + v–xi + 132 + cxxxiv. 1 *map.*

Venice. Terza relazione della commissione speciale per le ferrovie al consiglio provinciale di Venezia; E. Collotta, relatore. Venezia, 1874. O. pp. (1) + 5–81 + (3) + lxxxvi. 1 *fold. table.*

Zio, F. del, *editor.* La ferrovia dell' Aufido: documenti. Roma, 1872–74. O. pp. xliv + 269.

VII. NETHERLANDS.

Dutch Rhenish Railway (Nederlandsche Rhijn-Spoorweg.) Observations of the English members of the general direction of the company, upon the report made by the head direction to the general meeting of shareholders, held in Amsterdam 30th June, 1846. n.t.p. [Lond., 1846.] O. pp. iii–ix + (3). 1 *fold. table.*

—— [Prospectus.] n.t.p. [Lond., 11th July, 1845.] F[1]. pp. (3).

—— Regulations or by laws, for the direction of the Dutch Rhenish railway company. Amsterdam, 1845. O. pp. 23.

—— Report from the head direction in Amsterdam, addressed to the directors of the company in London, for the information of the shareholders. Lond., 1846. O. pp. 26.

—— Report of the head direction of the company, presented to the general meeting of shareholders at Amsterdam, 30th June 1846, 30th June, 10 Aug., 1847. Lond., [1846–47.] 3 vols. O. & F[6].

—— Statutes of the Dutch Rhenish railway company, established 3rd July, 1845. Amsterdam, 1845. O. pp. 33.

—— Netherlands. Act of concession, transferred from the concessionnaires, to the company. Established 3rd July 1845. Amsterdam, 1845. O. pp. 17.

Flushing-Middelburgh, Venloo and Maestricht Railway. The railway connecting the mouth of the Scheldt with the Meuse and the Rhine; the concession of which has been granted to Mr. Dirk Dronkers, by the government of Netherlands. Accompanied by statistical tables; also the reports of the English and Dutch engineers. Lond., 1846. O. pp. (1) + iv + 3–92. 1 *fold. map*, 1 *fold. plan.*

Hollandsche Ijzeren Spoorweg. [Overzicht van de Ontwikkeling] 1838–1889. [Amsterdam, 1889.] F. pp. 119. 43 *cts.*, 6 *plates*, 16 *fold. plates*, 1 *fold. map*, 1 *fold. table.*

Jacqmin, A. Étude sur les chemins de fer des Pays-Bas. 2[e] éd., augmentée de pièces justificatives. Paris, 1882. O. pp. (2) + 5–157 + (1). 1 *fold. map.*
"Publiée une première fois dans les *Annales de ponts et chaussées.* 1er semestre 1878, tome 15."

Netherlands — *Departement van Waterstaat, Handel en Nijverheid.* Statistiek van het vervoer op de spoorwegen en tramwegen over het jaar 1889. n.p., n.d. Q.

VIII. RUSSIA.

Collignon, E. Les chemins de fer russes de 1857 à 1862. 2[e] éd. Paris, 1868. F. pp. (2) + vii + 212 + (4); and *Atlas of* 51 *plates.* obl. Q.

Kreeft, C. First Russian railroad: from St. Petersburg to Zarscoe-Selo and Pawlowsk. Established by Imperial decree of 21st March, 1836, and carried into execution by a company of shareholders in Russia, England and Germany. St. Petersburg, 1837. Lond., [1837.] O. pp. 44. P. 56.

Plain Truth, *pseud.* Observations on the objects and prospects of the Russian railway enterprise; and on its qualities as a pecuniary investment. Lond., 1857. O. pp. 29. P. 56.

IX. SWITZERLAND AND THE ALPS.

Aargauische Südbahn. 1er–7er, 15er Jahresbericht und Rechnung des Directoriums der Schweiz. Centralbahn über das Unternehmen der Aargauischen Südbahn fur das Jahr 1872–78, '86. Basel, [1873–87.] 8 vols. sq. Q.

[Antonini, G.] Su alcune questioni relative al passaggio delle Alpi e ai grandi trafori. Milano, 1865. O. pp. 22. P. 70.

Arlbergbahn. Revaux, — Percement des Alpes: étude des travaux exécutés au tunnel de l' Arlberg. Paris, 1884. O. pp. 59. 6 *fold. plates.* P. 69.
"Extrait des *Annales des mines*, livraison de septembre-octobre, 1884."

—— Stabilini, G. La ferrovia alpina ed il gran tunnel dell' Arlberg. Milano, 1884. O. pp. 41. 5 *fold. plates.* P. 70.
"Estratto del *Politecnico*, vol. 32."

Basel-Zürich. Verhandlungen der dritten General-Versammlung der Aktionnärs. Zürich, 1840. Q. M. 6.

Bernische Jurabahnen. 1er–4e rapport annuel de la direction sur sa gestion du 1er mai 1871 au 1er septembre 1872; 1er septembre 1872 au 31 mars 1873; 1er avril, 1873 au 31 juillet 1874; 1er août au 31 décembre 1874. Bienne, [1872–75.] 4 vols. sq. Q.

—— Bericht und Anträge des Verwaltungsrathes an den Regierungsrath zu Handen des Grossen Rathes des Kantons Bern, gemäss den Bestimmungen des Decretes vom 2. Februar 1867. Biel, [1873?] sq. Q. pp. 63 + (46). 2 *fold. maps.*
In vol. "Jurabahn. Pamphlets. 1."

—— Bern (*Kanton*) — *Eisenbahndirektion.* Bericht an den Regierungsrath zu Handen des Grossen Rathes betreffend die Erbauung von Eisenbahnen im Jura. Bern,1866. sq. Q. pp. 53 + (7). 1 *fold. map*, 2 *fold. profiles*, 6 *fold. tables.*
In same.

—— Bericht betreffend die Vorschläge in den über Bau und Betrieb der bernischen Jurabahnen gepflogenen Unterhandlungen. Bern, 1870. sq. Q. pp. 56.
In same.

—— Jura-Bahnen: Betrieb durch die Staatsbahn: Gegen-Bemerkungen der Herren Ingenieure [G.] Gränicher, [A. v.] Muralt und [G.] Bridel, zum Mitrapport der Finanz-Direktion. Bern, 1870. sq. Q. pp. 27.
In same.

—— Ueber die Nothwendigkeit und die Mittel und Wege zur unverzuglichen Vollendung des jurassischen Eisenbahnnetzes; P Jolissant. Bern, 1871. sq. Q. pp. 28.
In same.

—— Vortrag betreffend A. den Finanzausweis der bernischen Jurabahn-Gesellschaft und B. den Einschluss der Staatsbahnlinien Biel-Neuenstadt & Biel-Bern als Staatsbetheiligung an der Vollendung des jurassischen Eisenbahnnetzes. Bern, 1873. sq. Q. pp. 40 + (12) + 51 + (3).
In same.

Bosco, L. Il porto di Genova in relazione ai passaggi internazionali delle Alpi al Gottardo, al Monte Bianco, al Frejus per mezzo della succursale alla ferrovia dei Giovi da Genova in Alessandria per le valli dello Stura e dell' Orba. Genova, 1880. O. pp. 24. 1 *fold. map.* P. 70.

Bötzbergbahn. 1er–7er, 9er, 17er Geschäftsbericht und Rechnung der Direktion der Schweiz. Nordostbahn über die Unternehmung der Bötzbergbahn, umfassend das Jahr 1870–76, '78, '86. [Zürich, 1871-87.] 9 vols. sq. Q.

Bülach-Regensberg. 1er–14er Geschäftsbericht und Rechnung der Direktion der Schweiz. Nordostbahn über die Unternehmung der Bulach-Regensberger-Bahn, umfassend das Jahr 1863–76. [Zürich, 1864–77.] 14 vols. sq. Q.

Chamonix-Montanvers. Tairraz, Z. À propos du chemin de fer projeté de Chamonix au Montanvers: mars, 1893. Bonneville, 1893. O. pp. 7.
Cover title.

Chur-Thusis-Filisur. Graubündner Centralbahn Chur-Thusis-Filisur. Chur, 1886. sq. O. pp. 31.
Contents:—Memorial des Initiativ-Comite's.—Gutachten des Oberingenieurs R. Moser über die Rentabilität.

Colladon, D. Notes sur les inconvénients et les difficultés du tunnel étudié sous le Mont-Blanc et de ses lignes d'accès projetées: avantages incontestables d'un chemin de fer international par le Simplon. Genève, 1880. O. pp. vii + 68 + (1). 1 *fold. profile.*
In vol. "Simplonbahn. Pamphlets. 1."

Conducteur suisse; chemins de fer suisses, postes, bateaux à vapeur, télégraphes. Saison d'été, 1er juin au 30 sept. Sommer-Fahrtenplan. Berne, 1894. S.

Conferenz Schweizerischer Eisenbahnverwaltungen. Graphisch-statistischer Atlas der schweizerischen Normalbahnen; erstellt im Auftrage und unter Mitwirkung der Conferenz Schweizerischer Eisenbahnverwaltungen von der Direction der Schweizerischen Nordostbahn für die Schweizerische Landes-Ausstellung in Zürich, 1883. Zürich, [1883]. F6. pp. (3). 40 *fold. plates.*

Effretikon - Wetzikon - Hinweil. Rechnungen der Direktion der Schweiz. Nordostbahn für die Eisenbahn-Gesellschaft Effretikon-Wetzikon-Hinweil, umfassend das Jahr 1874. [Zürich, 1875.] sq. Q.

—— 1er, 3er Geschaftsbericht und Rechnung der Direktion der Schweiz. Nordostbahn über den Betrieb der Eisenbahnunternehmungen Effreti-

kon-Wetzikon-Hinweil, betreffend das Jahr 1876, '78. [Zürich, 1877–79.] 2 vols. sq. Q.

Emmenthalbahn. 2er Geschäfts-Bericht der Direction an den Verwaltungs-Rath zu Handen der General-Versammlung der Aktionäre, vom 1. Januar, 1874 bis 31 Dezember, 1874. Solothurn, [1875?] Q. M. 6.

Fernbahnproject (Das) und seine Bedeutung im Verhältnisse zum Brenner und Gotthard. Ulm, 1872. O. pp. 10. P. 11.

Franco-Suisse. Assemblée générale des actionnaires du 29 septembre, 1866, 25 juillet 1871: 11e, 16e rapport du conseil d'administration. Neuchatel, 1866–71. 2 vols. sq. Q.
In vol. "Chemins de fer suisses."

—— Girod, E. Itinéraire descriptif du Chemin de fer Franco-Suisse de Neuchatel à Pontarlier. Neuchatel, 1862. D. pp. ix + 11–223.

—— Ruelle, — Mémoire sur les dépenses de construction, d'administration et d'exploitation du Chemin de fer Franco-Suisse. Paris, 1865. O. pp. (2) + 90. 2 *fold. plates.* P. 14.
"Extrait des *Annales des ponts et chaussées*, tome 10, 1865."

Frey, J. Das Projekt einer Fusion der Schweizerischen Centralbahn und der Schweizerischen Nordostbahn: ein eisenbahnpolitische und eisenbahnrechtliche Studie, als Beitrag zur Lösung der schweizerischen Eisenbahnfrage. Aarau, 1893. O. pp. iv + (2) + 250. 11 *fold. plates.*

Fribourg-Bulle-Lausanne. Nouvelles considérations présentées par la comité du chemin de fer de la Gruyère, en faveur d'une voie ferrée par Bulle; avec un projet de tracé par Mr. Stuckart. Fribourg, 1856. O. pp. 14 + (2). 1 *fold. map.*

Geiser, K. Vierzig Jahre bernischer Eisenbahnpolitik. Bern, 1892. O. pp. 84.

Genf-Versoix-Céligny — Switzerland — *Staatsrath.* Bericht des Staatsraths an den Grossen Rath betreffend die Eisenbahn. Bern, 1867. O. pp. 99 + 1. P. 11.

Gotthardbahn. 1er–17er Geschäftsbericht der Direktion und des Verwaltungsrathes an die am 30. Juni 1873–29. Juni 1889 stattfindende Generalversammlung der Aktionäre. [Luzern, 1873–89.] 17 vols. bd. in 3. sq. Q.

—— Aktenstücke zur Frage der Gotthardbahn. Februar 1869 bis Ende April 1870. Berlin, 1870. O. pp. (3) + 6–52.
In vol. "St. Gothard. Pamphlets. 3."

—— Bericht und Antrag der Revisionskommission an die Generalversammlung der Aktionäre vom 27. Juni 1887; 30. Juni 1888; 29. Juni 1889. [Luzern, 1887–89.] 3 vols. sq. Q.

—— *Same, French.* [Lucerne, 1887–89.] 3 vols. sq. Q.

—— Die Gotthardbahn in kommerzieller Beziehung. Zürich, 1864. O. pp. (4) + 130 + 13 + (1). 1 *fold. map.*

—— *Same, French.* Zürich, 1864. O. pp. (3) + 127 + 13 + (2). 1 *fold. map.*
"La Commission instituée par la majorité des gouvernements cantonaux et par les administrations du Central et du Nord-Est Suisses, afin de consacrer ses efforts à faire prévaloir le projet d'un chemin de fer à travers les Alpes par le Gothard," G. Koller, W. Schmidlin, G. Stoll.
In vol. "St. Gothard. Pamphlets. 1."

—— Die Gotthardbahn in technischer Beziehung und Rentabilitäts-Berechnung auf Grundlage des kommerziellen und technischen Gutachtens. Zürich, 1865. O. pp. (8) + 102 + 133 + 68 + 9.
In same.

—— *Same, French.* Zürich, 1865. O. pp. (8) + 118 + 125 + 72 + 10.
Signed G. Koller, W. Schmidlin, G. Stoll. In same.

—— Die Gotthardbahn und der Lukmanier: Erwiederung auf die Schrift: "Die Lukmanierbahn in technischer, commerzieller und finanzieller Beziehung." Zürich, 1865. O. pp. (2) + 67.
In same, 3. Signed G. Koller, W. Schmidlin and G. Stoll.

—— Projet d'un chemin de fer par le St. Gotthard; dressé, à la demande du Comité du St. Gotthard, par A. Beckh et R. Gerwig. Winterthur, 1864. *portfolio in* F[1], *of* 5 *fold. plates.*

—— Projet d'un chemin de fer par le St. Gotthard; dressé à la demande du Comité du St. Gotthard, par A. Beckh et R. Gerwig; avec une annexe renfermant le projet proposé par K. Wetli. Winterthur, 1864. *portfolio in* F. *of* 13 *maps and plates.*

—— Switzerland: [a history and description of the] St. Gothard railway; by Geo. L. Catlin. Lucerne, 1890. Q. pp. (2) + 7–31. *illus.*, 2 *fold. maps.*
In vol. "St. Gothard. Pamphlets. 4."

—— Zur Simplon-Literatur; Antwort auf die Schrift: "Kritische Beleuchtung der Gotthardts-Litteratur." Zürich, 1865. O. pp. 16.
Signed C. Koller, W. Schmidlin, G. Stoll. In vol. "Simplonbahn. Pamphlets. 1."

—— Batisse, — Notice sur les travaux de percement du Saint-Gothard. Paris, 1875. O. pp. 31. 1 *fold. plate.*
"Extrait des *Annales des ponts et chaussées*, 1875, 1er sem., tome 11." In vol. "St. Gothard. Pamphlets. 4."

—— Chatoney, — Note sur la situation financière du chemin de fer du Saint-Gothard. Paris, 1877. O. pp. 14. 1 *fold. plate.*
"Extrait des *Annales des ponts et chaussées*, 1877, 1er, sem., tome 13." In same.

—— Colladon, D. Die maschinellen Arbeiten zur Durchborung des Gotthardtstunnels. Zürich, 1876. O. pp. (2) + 5–33 + (1). 1 *plate*, 2 *fold. plates.*
In same, 3.

—— Mémoire sur les travaux d'avancement du tunnel du Saint-Gothard et sur le raccorde-

ment exact des deux galeries effectué le 29 février 1880. Paris, 1880. O. pp. 17.
"Extrait des *Mémoires de la Société des Ingénieurs Civils.*"
"M. le professeur C. Clericetti hommage de l'auteur."
In same, 4.

—— Hellwag, W. Mein Gutachten über A. Thommen's "Gotthardbahn"; Bemerkungen zur Reform dieses Unternehmens. Zürich, 1877. O. pp. 36. 2 *fold. plates.*
In same, 3.

—— Lazzaro, F. Ferrovia e traforo del Gottardo: lezione popolare data nell' Ateneo Veneto il 23 gennaio 1874. [Venezia, 1874.] O. pp. (2) + 5–19.
In same, 4. "Estratta dagli *Atti dell' Ateneo Veneto*, vol. II, puntata 3."

—— Lucchini, P. Ferrovia attraverso le Alpi: terza memoria in appoggio del suo progetto pel S. Gottardo. Bellinzona, 1853. Q. pp. (2) + 5–19.
In same.

—— Progetto di una strada-ferrata attraverso il San Gottardo, onde collegare le ferrovie d'Italia con quelle della Svizzera centrale. Bellinzona, 1853. Q. pp. 7 1 *fold. table*, 3 *fold. profiles.*
In same.

—— Milan—*Collegio degli Ingegneri ed Architetti.* Relazione sulla scelta della linea di allacciamento delle ferrovie italiane col Gottardo. n. t.p. [Milano, 1877.] Q. pp. 15.
Signed by F. Brioschi, L. Tatti, C. Carcano, R. Gaetano, G. Chizzolini, L. Quaranta, relatore.
"Dagli *Atti del Collegio degli Ingegneri ed Architetti in Milano.* Anno 10. Fascicolo 2, 1877."
In vol. "St. Gothard. Pamphlets. 4."

—— Po' più (Un) di luce sulla miglior linea ferroviaria per unire Torino ed il Piemonte al Gottardo. Torino, 1884. O. pp. 40. 1 *fold. map*, 1 *fold. section.* P. 21.

—— Raschèr, J. M. Der Gotthard als Eidgenosse; ein Beitrag zur Frage der Bundessubvention an die Gotthardbahn. Bern, 1878. O. pp. iv + 64.
In vol. "St. Gothard. Pamphlets. 3."

—— Rüegg, H. Die Wirkungen der Sankt Gotthardbahn. Leipzig, 1892. O. pp. iv + (2) + 120 + 1.
Bibliography, 1 p.

—— [Schwarz, S. *and* Siegfried, H.] Die Gotthard-Bahn in militairischer Beziehung. Aarau, 1865. O. pp. (2) + 5–25.
In vol. "St. Gothard. Pamphlets. 3."

—— Switzerland. Mémoire du Département Fédéral des Chemins de fer, sur la construction du chemin de fer du St. Gothard. Berne, [1886–88.] F. pp. 290. 16 *fold. tables.*

—— Rapport mensuel no. 6 du Conseil fédéral suisse sur l' état des travaux de la ligne du St. Gothard au 31 mai 1873. n.t.p. [Berne, 1873.] nar. F⁴.

—— Tatti, L. Del migliore tracciato delle ferrovie subalpine al valico del Gottardo. n.t.p. [Milano, 1872.] Q. pp. 7.
"Estratto dal *Politecnico*, anno 20."

—— La linea di congiunzione di Genova col Gottardo. n.p., n.d. O. pp. 16.

—— Le linee italiane di raccordo al Gottardo. Milano, 1876. D. pp. (3) + 31.

—— Intorno al sussidio di Milano per il valico del Gottardo. Milano, 1877. O. pp. 8.
"Estratto dal giornale *La Perseveranza.*"

—— Sulle ferrovie d'accesso al Gottardo nell' interesse di Milano. [Milano, 1879]. sq. O. pp. 15.

—— Wanner, M. Geschichte der Begründung des Gotthardunternehmens. Bern, 1880. O. pp. vii + (1) + 458 + (1).
"Literatur über die Alpenbahnfrage," pp. 3–8.

—— Zschokke, O. Die Anwendung des Zahnschienen-Systems auf die Gotthardbahn. Aarau, 1877. F. pp. (3) + 56. 1 *fold. section.* M. 5.

Hunziker, F. Das schweizerische Eisenbahnnetz in seinen Anfängen und seiner Entwicklung. Zürich, 1877. Q. pp. (1) + 19 + (1). 1 *fold. table.* M. 6.
In "Programm der Kantonsschule in Zürich, 1877."

Italy — *Ministero dei Lavori Pubblici.* Les projets de chemins de fer par les Alpes helvétiques: enquête technique et commerciale ordonnée par le gouvernement italien. Traduction française, publiée par le Comité du Saint-Gothard. Zürich, 1869. Q. pp. (6) + 34 + 250 + (1). 4 *fold. sections*, 11 *fold. maps.*

Jacini, S. L'Italia e la Svizzera: nella questione della ferrovia delle Alpi elvetiche. Milano, 1863. O. pp. (2) + 3–54. 1 *fold. table*, 1 *fold. map.* P. 70.

Jura-Gotthard-Bahn. Die Jura-Gotthard-Bahn: Zweck und Charakter, Tracé, Kosten, Verkehr, Rentabilität. Bern, [1874.] sq. Q. pp. 16.
Signed "Das Initiativ-Comité." Cover title. In vol. "Jurabahn. Pamphlets. 1."

Koblenz-Stein. 1er–3er, 5er Geschäftsbericht und Rechnung der Direktion der Schweiz. Nordostbahn über die Eisenbahnunternehmung Koblenz-Stein, umfassend das Jahr 1874–76, '78. [Zürich, 1875–79.] 4 vols. sq. Q.

Lommel, T. G. Le compromis dans la question des subventions aux chemins de fer des Alpes: ses origines et sa satisfaction au point de vue des intérêts vaudois et suisses. Lausanne, 1879. O. pp. (3) + 3–75. P. 11.
Contents:—Genèse du Gothard.—Justification d'une intervention fédérale.—Les origines du compromis.

—— Die Handels- und Verkehrsinteressen der verschiedenen Schweizerkantone und ihr Verhältniss zu den projektirten Alpenbahnen. St. Gallen, 1865. Q. pp. (3) + 35. M. 6.

—— Simplon-St. Gothard-Lukmanier: étude comparative de la valeur technique et commerciale des voies ferrées projetées par ces passages alpins italo-suisses. Lausanne, 1865. sq. O. pp. v + 7–240. 3 *fold. maps.*
In vol. "St. Gothard. Pamphlets. 2."

Lukmanierbahn. Il Lucomagno paragonato al San Gottardo in ordine al passaggio ferroviario delle Alpi elvetiche: esposizione del Comitato promotore della ferrovia del Lucomagno. Genova, Firenze, 1865. sq. O. pp. xii + 224.

—— Die Lukmanierbahn in technischer, commerzieller und finanzieller Beziehung und Vergleichungen mit der Gotthardbahn; herausgegeben vom Lukmanier-Comité. St. Gallen, 1865. sq. O. pp. (6) + 195. 2 *fold. maps.*

—— Passage des Alpes; chemin de fer Locarno à Coire par le Lucmanier: plan général dressé par L. Pestalozzi. n.t.p. St. Gall, 1860. F. 1 *fold. diagr.* M. 5.

—— La position technique, commerciale et financière du Lukmanier, comparée à celle du Saint-Gothard. Lausanne, 1865. sq. O. pp. (6) + 3–221. 3 *fold. maps.*
In vol. "St. Gothard. Pamphlets. 2."

—— Tatti, L. Proposta di una rete di congiunzione delle ferrovie Lombarde e Piemontesi colla linea del Lucomagno. Milano, 1861. O. pp. 16. 1 *fold. map.*
"Estratto dal *Politecnico*, vol. 10, n. 60."

Memminger, A. Die Alpenbahnen und deren Bedeutung für Deutschland und Oesterreich, mit besonderer Beziehung auf Gotthard, Brenner, Arlberg und Fern. Zürich, 1878. O. pp. (3) + 172 + (2). 2 *plates*, 6 *fold. maps.*

Milan (*Provincia*). La questione del passaggio delle Alpi elvetiche con una ferrovia: rapporto della commissione nominata dal Consiglio provinciale di Milano, presentato 15 dicembre 1861. [A. Vanotti, relatore.] Milano, 1862. Q. pp. (2) + 5–94 + (2). 2 *fold. maps*, 4 *fold. tables.*

—— Relazione alla deputazione provinciale di Milano sull' operato dei delegati dalla medesima a propugnare presso la commissione commerciale governativa il passagio ferroviario delle Alpi. Milano, 1866. F. pp. (6) + 103 + (1). 1 *fold. map*, 1 *fold. section.*

Milano-Saronno-Mendrisio. Grilloni, G. La diretta Milano-Saronno-Mendrisio rivendicata quale opportuna sezione di linea per una ferrovia alle Alpi elvetiche. Como, 1864. O. pp. 72. 1 *fold. map.* M. 7.

Mont Blanc. Stamm, E. *and* Maimeri, L. Ferrovia del Monte Bianco progetto dell' ing. Ernesto Stamm; studiato sul luogo colla collaborazione dell' ing. Leone Maimeri. Torino, 1874. O. pp. 32 + (3). P. 69.
"Estratto dal *Monitore delle strade ferrate.*"

Mont Cenis. L' ing. Giambattista Piatti e il traforo del Cenisio: rivendicazione. Milano, 1872. D. pp. (2) + 73.
Bibliography of the writings of Piatti, pp. 62–67. In vol. "Mount Cenis. Pamphlets. 1."

—— Cagnoni, A. Considerazioni sul deflusso dell' aria compressa per lunghi condotti e sulle relative applicazioni segnatamente al trafaro del Cenisio. n.t.p. [Milano, 1859?] O. pp. 38. 1 *fold. plate.*
"Memoria letta nella tornata del 10 febbrajo 1859 dell' Istit. Lombardo di Scienza, Lettere ed Arti." "Estratto dal *Giornale dell' ing.-arch. ed agron.*, anno, 7." In vol. "Mont Cenis. Pamphlets. 1."

—— Conte, — Rapport sur le percement du grand tunnel des Alpes. Paris, 1863. O. pp. (2) + 51. 4 *fold. plates.* P. 70.
"Extrait des *Annales des ponts et chaussées*, 1er semestre, 1863."

—— Conte, — *and others.* Rapport sur les expériences faites sur le chemin de fer de Saint-Michel à Suze par la route impériale; no. 6. Paris, 1866. O. pp. (2) + 31. 1 *fold. plate.* P. 14.
"Extrait des *Annales des ponts et chaussées*, tome 11, 1866." "Par MM. Conte, Boehet, Guinard, Perrin."

—— Fettarappa, G. Relazione di una visita fatta al traforo delle Alpi Cozie come esercitazione pratica di macchine a vapore e ferrovie: ventilazione della galleria. Torino, 1868. O. pp. (4) + 7–43. 1 *fold. plate.* P. 69.
"Dissertazione e tesi presentate alla Commissione esaminatrice della R. Scuola d'applicazione per gl' ingegneri in Torino, per ottenere il diploma di Ingegnere Laureato."
"Al mio egregio professore di disegno di macchine Ing. Guise Fassa."

—— Favaro, A. Studi sul tracciamento della galleria delle Alpi Cozie tra Bardonnèche e Modane pregeduti da cenni storici. Torino, 1869. O. pp. (5) + 11–79. 3 *fold. plates.* P. 69.
"Dissertazione e tesi presentate alla R. Commissione esaminatrice per ottenere il diploma di Ingegnere Laureato."

—— Italy—*Direzione Generale delle Strade Ferrate.* Traforo delle Alpi tra Bardonnèche e Modane: relazione della Direzione tecnica. Torino, 1863. F. pp. (3) + 113. 9 *fold. plates*, 1 *fold. map.*

—— Kossuth, F. de. Étude sur l'application de la ventilation artificielle à l'aérage du tunnel du Mont-Cenis. Paris, 1881. O. pp. (2) + 5–42.
"Extrait des *Annales des mines*, livraison de septembre-octobre 1881."
In vol. "Mont Cenis. Pamphlets. 1."

—— Ventilazione artifiziale perfetta ed economica della grande galleria del Frejus. Cesena, 1880. O. pp. 35.
In same.

—— Maus, H. *and* Paleocapa, P. Rapport sur les études du chemin de fer de Chambéry à Turin et de la machine proposée pour exécuter le tunnel des Alpes entre Modane et Bardonnèche,

par Henri Maus: et Rapport rédigé au nom de la commission chargée de l'examen de ces études, par Pierre Paleocapa: suivi des procès-verbaux des séances de cette commission. Turin, 1850. F. pp. 56. 8 *fold. plates*, 1 *fold. map.*

—— *Same, Italian.* Torino, 1850. F. pp. 56. 8 *fold. plates*, 1 *fold. map.*

—— Saint-Robert, P. de. Théorie du compresseur à colonne d'eau de MM. Sommeiller, Grattori et Grandis, et applications au compresseur qui fonctionne au percement des Alpes cottiennes. Paris, 1863. nar. O. pp. (56). 1 *plate*. p. 69.

—— Tatti, L. Il Monteceneri davanti al consiglio provinciale di Milano. Milano, 1879. O. pp. 7.
Cover title.

—— Treves, M. Sulla perforazione meccanica delle gallerie ferroviarie ed in particolare sul gigantesco traforo delle Alpi Cozie detto del Moncenisio. Venezia, 1864. O. pp. (3) + 7–124. 2 *fold. plates.*

Moschell, J. Notice sur le chemin de fer de l'Utliberg (près Zurich) à rampe de 7 pour 100 et traction par simple adhérence. [Paris, 1877.] O. pp. (13). p. 9.
"Extrait des *Annales du génie civil.*"

Novara (*Provincia*). Sulle ferrovie di accesso al Sempione e al Gottardo; relazione della deputazione al consiglio provinciale di Novara con le relative deliberazioni ed allegati. Novara, 1879. O. pp. 100.
In vol. "St. Gothard. Pamphlets. 4."

Ouest Suisse. Assemblée générale ordinaire des actionnaires le 27 mai 1869, le 19 mai 1871, à Lausanne; rapport du conseil d' administration. Lausanne, 1869–71. 2 vols. sq. Q.
In vol. "Chemins de fer suisses."

—— Sulzberger, J. Gesuch für die Erbauung einer Eisenbahn von Yverdon nach Morges und Ouchi. Dem hohen schweiz. Bundesrathe vorgelegt im November 1851. Frauenfeld, 1851. D. pp. 22. p. 9.

Peyer im Hof, J. F. Der Kanton Tessin und die Alpenbahnfrage; ein offenes Sendschreiben an Freund und Feind. Zurich, 1866. O. pp. 46. p. 11.

Planta, P. C. Der dreissigjahrige Kampf um eine rätische Alpenbahn. Chur, 1885. O. pp. 101 + (1). p. 11.
"Vorgetragen in der Hist.-antiq. Gesellschaft des Kantons Graubünden."

Raschèr, J. M. Der Alpenbahn-Kompromiss vor der Volksabstimmung. Bern, 1879. O. pp. 47. p. 11.
Contents: — Die Alpenbahngeschichte, 1839-69. — Der Gotthard-krach, 1870-78.—Der Kompromiss.

Revaux, — Percement des Alpes: étude comparative des travaux exécutés aux tunnels du Mont Cenis et du Saint-Gothard. Paris, 1879. O. pp. (2) + 5–89. 4 *fold. plates.*
"Extrait des *Annales des mines*, livraisons de mars-avril et mai-juin 1879." In vol. "Mont Cenis. Pamphlets. 1."

Rigibahn. 1er–13er Geschäftsbericht des Verwaltungsrathes, umfassend die Zeit von der Gründung des Unternehmens bis Mai 1871; umfassend das Jahr 1871–82. Luzern, 1871–[83.] 13 vols. bd. in 1. sq. Q.

—— Kronauer, J. H. Die Rigi-Eisenbahn mit Zahnradbetrieb. 2e, vermehrte Auflage. Winterthur, 1871. Q. pp. 4. 1 *plate*, 2 *fold. plates.* m. 5.
Cover title.

—— Maeder, D. Vitznau am Rigiberge und seine Alpenbahn. Aarau, 1871. O. pp. (2) + 80. p. 11.

—— Exner, W. F. *and others.* Die Rigi-Bahn: System Riggenbach-Näff-Zschokke; mit Benutzung des J. H. Kronauer'schen Berichtes nach eigenen Aufnahmen in ihrem gegenwärtigen Zustande geschildert von W. F. Exner und den Assistenten F. Walla und E. Hanausek. Wien, 1872. O. pp. 20. 3 *fold. plates.* p. 9.
"Separat-Abdruck aus dem Wiener *Techniker.*"

[S., L.] Alcuni riflessi ancora sui sistemi idropneumatici ed idrofunicolari da applicarsi ai passaggi alpini invece della locomotiva. Milano, 1866. O. pp. 19. p. 70.
"Estratto dagli *Annali universali di statistica*, fascicolo di dicembre 1865, pubblicato in gennajo 1866."

St. Gallen - Appenzell. Illustrirter Wegweiser; in zehn Ansichten, gezeichnet und herausgegeben von J. B. Isenring, mit erläuterndem Texte von Otto Henne. St. Gallen, 1856. O. pp. 32 + (9). 10 *plates.* p. 9.

St. Gallen-Rapperswil-Zug. Projet d'une normalspurigen Eisenbahn St. Gallen-Rapperswil-Zug. [A. Brunner, ingenieur.] St. Gallen, 1890. sq. Q. pp. (2) + 71. 6 *fold. maps*, 6 *fold. sections*, 1 *fold. table.*

Schweizerische Centralbahn. 8er–10er, 19er–21er, 26er, 30er Bericht an die General-Versammlung; Geschäftsjahr 1860–62, '70–75, '77, '81. Basel, [1860]–82. 11 vols. sq. Q.

—— Streit (Der) zwischen der Regierung des Kantons Basellandschaft und der Direktion der Zentralbahn uber den Homburger Bach. [Zürich,] n.d. O. pp. (1) + 40. p. 9.
"Abgedruckt aus der *Zeitschrift zur Kunde und Fortbildung der zürcherischen Rechtspflege* von Joseph Schauberg."

Schweizerische Nationalbahn. 1er Geschäftsbericht der Direktion und des Verwaltungsrathes an die Generalversammlung der Aktionäre: abschliessend mit 31. Dezember 1875. Winterthur, 1876. Q. m. 6.

Schweizerische Nordbahn. Verhandlungen der 6., 7. Generalversammlung. Zurich, 1851–52. 2 vols. O. p. 9.

Schweizerische Nordostbahn. Auszug aus dem Protokolle der ordentlichen Generalversammlung der Aktionäre, abgehalten in Zurich, April 1854–55. Zürich, 1854–55. 2 vols. O.

—— 3er–28er, 33er, 34er, 36er Geschäftsbericht der Direktion umfassend das Jahr 1855–80, '85, '86, '88. Zürich, 1856–89. 29 vols. sq. Q.

—— Bericht des Verwaltungsrathes an die Generalversammlung der Aktionäre über seine Geschäftsführung im Jahre 1878–80, '85, '86, '88. Zürich, 1879–89. 6 vols. O. and sq. Q.

—— Aktenmaterial betreffend die Bauverpflichtungen der Nordostbahn. Zürich, 1887. O. pp. 44.

Contents: — Bau-Verträge. — Verzeichniss der Subventionen.—Moratoriumsbeschlüsse.

In vol. "Schweiz. Nordostbahn. Pamphlets. 1."

—— Beleuchtung des im Auftrage der Regierungen der Kantone Zürich, Schaffhausen, Aargau und Thurgau von den Herren Zschokke, Kaiser und Steinmann-Bucher abgegebenen Gutachtens über die Situation der Nordostbahn und die Auszahlung von Dividenden. Zürich, 1882. O. pp. 54 + (7).

—— Bericht der Direktion an die den 30. Juni 1877 stattfindende Generalversammlung der Aktionäre über die gegenwärtige Finanzlage der Unternehmung. [Zurich, 1877.] sq. Q. pp. 65 + (24). M. 6.

—— Bericht der von der Generalversammlung der Aktionäre am 30. Juni 1877 bestellten Commission über den Geschäftsbericht der Direction und die Jahresrechnungen pro 1876, sowie über die Situation der Nordostbahn. Schaffhausen, [1878.] O. pp. (3) + 63.

—— Bericht des Verwaltungsrathes an die Generalversammlung betreffend den Geschäftsbericht der Direktion und die Jahresrechnungen der Nordostbahn pro 1876. n.t.p. [Zürich, 1877.] O.

—— Bericht des Verwaltungsrathes an die Generalversammlung der Aktionäre betreffend die Situation der Nordostbahn. Zürich, 1877. O. pp. 65 + 24 + 13 + 31 + 17 + 4 + 3.

—— Bericht und Antrag der Revisionskommission an die Generalversammlung der Aktionäre betreffend Geschäftsberichte und Rechnungen für 1879. n.t.p. [Zürich, 1880.] sq. Q. pp. (3).

—— Bericht und Anträge der Revisionskommission an die Generalversammlung der Aktionäre vom 30. Juni 1881. n.t.p. [Zürich, 1881.] sq. Q. pp. 4.

—— Situation und Reconstruction der Nord-Ost-Bahn; Bericht der von einer Actionär-Versammlung gewählten Kommission. Zürich, 1877. O. pp. (2) + 44. 8 *fold. plates.*

In vol, "Schweiz. Nordostbahn. Pamphlets. 1."

—— Geiser, C. F. Die Krisis der Nordostbahn; Rückschau und Ausblick auf die schweizerische Eisenbahnpolitik. Zürich, 1877. O. pp. (2) + 48. (Schweizer-Zeitfragen. Heft 5.)

In same.

—— Memminger, A. Die N.O.B. im Lichte der Ziffern; Erläuterungen über Situation und Rekonstruktion der Schweizerischen Nordostbahn. Zürich, 1877. O. pp. 62 + (1).

In same.

—— Thurgau (*Kanton*). Betrachtungen über die Anlegung einer Eisenbahn vom Bodensee nach Zürich, und vergleichende Darstellung der zwei hiefür in Vorschlag gebrachten Linien: auf Veranstaltung des Regierungsrathes des Kanton Thurgau dem Drucke übergeben. Frauenfeld, 1852. O. pp. 37. P. 9.

—— Vögeli, A. Zur Situation der Nordostbahn; Denkschrift an die Actionäre dieser Unternehmung. [Zürich, 1877?] O. pp. 81 + (1).

In same.

—— Zürich, Schaffhausen, Aargau, Thurgau (*Kantone*). Experten-Gutachten über die Situation der Nordost-Bahn und die Auszahlung von Dividenden beginnend mit dem Jahre 1880. Abgegeben im Auftrage der Regierungen der Kantone von den Experten Olivier Zschokke, Simon Kaiser, Steinmann-Bucher. St. Gallen, 1882. sq. Q. pp. 95. M. 6.

Simplonbahn. Al Ministro dei lavori pubblici: memoriale del comitato promotore della ferrovia d' accesso al Sempione sulla linea di Gozzano, Omegna e Domodossola. Novara, 1878. O. pp. 16.

In vol. "Simplonbahn. Pamphlets. 1."

—— Ferrovie d' accesso al Sempione: linea Arona-Ornavasso chilometri 33,209; relazione presentata al comitato promotore del valico ferroviario del Sempione dal Signor ing. Giosuè Pensa. Milano, 1882. Q. pp. 30. 1 *fold. section.*

In same.

—— Simplon et Mont-Blanc; examen de la brochure de M. le sénateur Chardon, intitulée: Le percement du Mont-Blanc. Lausanne, 1879. Q. pp. 31. 1 *fold. map.*

Signed "Le Comité de Direction du Chemin de fer du Simplon."

—— *Same, Italian.* Firenze, 1879. O. pp. 15. 1 *fold. map.*

—— Agudio, T. Al primo Parlamento italiano: alcuni schiarimenti sui progetti di strada ferrata attraverso le Alpi elvetiche e proposta del passaggio del Septimer. Milano, 1860. F. pp. 23 + 1. 1 *fold. plate.*

"Estratto dal giornale la *Perserveranza.*"

—— Flachat, E. De la traversée des Alpes par un chemin de fer. (No II.): developpements; étude du passage par le Simplon. Neuilly, 1860. O. pp. (2) + v–xv + 294 + (1). 15 *figs,* 1 *map,* 3 *fold. profiles.*

—— Gentilini, R. La traversée des Alpes par le chemin de fer du Simplon. Paris, 1887. Q. pp. 40. 1 *fold. map.*
Bibliography, pp. 9-11. In vol. "Simplonbahn. Pamphlets. I."

—— Huber, W. *and* Lommel, G. T. Le chemin de fer alpin par le Simplon; conférences faites à la Société des ingénieurs civils de Paris. Paris, 1878. O. pp. (1) + xii + 29. 1 *fold. plate*, 2 *fold. maps*, 1 *fold. section.*
"Extrait des *Mémoires de la Société des ingénieurs civils.*" In same.

Lommel, G. T. Étude de la question de chaleur souterraine et de son influence sur les projets et systèmes d' exécution du grand tunnel alpin du Simplon. Lausanne, 1880. Q. pp. (1) + 40 + 4. 1 *fold. map*, 6 *fold. sections.*
"Présentée à la réunion de la Société helvétique des sciences naturelles à Brigue, le 13 Septembre, 1880." In same.

—— Examen critique des nouveaux essais de tracé entrepris sur les auspices de la compagnie Suisse Occidentale-Simplon pour la rampe d' accès méridionale du tunnel du Simplon. Lausanne, 1882. Q. pp. 73. 1 *fold. map*, 1 *fold. profile.*
In same.

—— Exposé des études du chemin de fer alpin par le Simplon; présenté à la Société helvétique des sciences naturelles. Lausanne, 1878. O. pp. 14. 1 *fold. plate.*
"Extrait des Actes de la 60e session de la Soc. helv. des sc. nat., août 1877."
Cover title. In same.

—— Notes critiques auxiliaires concernant les nouvelles études de la rampe d'accès méridionale du grand tunnel alpin du Simplon. n.t.p. [Lausanne, 1883.] Q. pp. 16. 1 *plate.*
In same.

—— Vauthier, L. L. Le percement du Simplon; devant les Chambres et les intérêts de la France. Paris, 1881. Q. pp. 130. 2 *fold. maps.*

Speiser, W. Mittheilungen über die Anfange des schweizerischen Eisenbahnwesens und uber die ersten Jahre der Schweizerischen Centralbahn. Basel, 1887. O. pp. (1) + 118.
"Zwei Vorträge gehalten in der Statistisch-volkwirthschaftlichen Gesellschaft in Basel im Winter 1886."

Splugebahn. Bergamo (*Provincia*). Sulla ferrovia per le Alpi elvetiche al Lago di Costanza: rapporto della Commissione provinciale di Bergamo. n.t.p. [Bergamo, il 6 maggio 1861.] sq. Q. pp. 12. 1 *fold. map.* M. 5.

—— Einstimmig fur den Splugen! Ein Wort zur Beherzigung fur die Volksabstimmung. n.p., n.d. O. pp. 23. P. 11.

—— Milan (*Provincia*), *and others*—*Comitato Interprovinciale.* Nuovo progetto per la ferrovia dello Spluga proposto dal comitato interprovinciale. [Milano, 15 febbraio, 1886.] F. pp. 27. 1 *fold. map*, 1 *fold. section.* M. 5.

—— Quadrio, C. Progetto di ferrovia attraverso le Alpi [pel passo dello Spluga.] Milano, 1861. F. pp. 49. 1 *fold. plate*, 1 *fold. map.* M. 5.
Cover title.

—— Tatti, L. Osservazioni al nuovo progetto di ferrovia dello Spluga; presentato al consiglio provinciale di Milano. Milano, 1870. O. pp. 20.

Stüssi, H. Ueber die Subvention schweizerischer Eisenbahnunternehmungen. Bern, 1875. Q. pp. 69. M. 6.
"Separatabzug aus der *Zeitschrift für schweiz. Statistik.*"
Cover title.

Suisse Occidentale. [1er,] 4e, 6e rapport du comité d'exploitation sur sa gestion pendant l'année 1865, 1868, 1870. Lausanne, 1866-71. 3 vols. sq. Q.
This and the two next following in vol. "Chemins de fer suisses."

—— Convention pour le renouvellement de l'association, 24 juin 1871. Lausanne, 1871. sq. Q. pp. (1) + 14.

—— Rapport présenté par le conseil de surveillance aux conseils d'administration, à l'appui du projet de convention pour le renouvellement de l'association. Lausanne, 1871. sq. Q. pp. 11.

Switzerland—*Bundes-Versammlung.* Sammlung der auf das schweizerische Eisenbahnwesen bezüglichen amtlichen Aktenstüke: auf den besondern Wunsch des schweizerischen Nationalrathes vom 1. Feb. 1853 veranstaltet. Bern, [1853-55.] 3 pts. bd. in 1 vol. D. pp. (1) + vii + 3-371. 1 *fold map;* pp. (1) + iv + 3-287; pp. (1) + 80.

Tallichet, E. Les chemins de fer suisses et les passages des Alpes. Lausanne, 1870. O. pp. (3) + 7-208.

Tatti, L. Notizie sulle condizioni tecniche ed economiche delle progettate ferrovie della Ponteba e del Predil pel valico delle Alpi Giulie. Milano, 1870. Q. pp. (1) + 8.
"Estratto dal *Politecnico*, anno 18."

—— Parallelo fra i progettati valichi alpini del Sempione e del Monte Bianco. Milano, 1880. O. pp. (2) + 5-36. 1 *fold map.*

—— Il Settimo od il Lucmagno? Milano, 1863. O. pp. 16.

—— Sulla questione del passaggio delle Alpi elvetiche. Lettera all' ing. Filippo Bignami. [Ortona, 23 dicembre, 1861.] O. pp. 12.

Thouvenot, C. Un moyen de franchir les Alpes ou toute autre chaine de montagne par un chemin de fer avec des rampes de 5 à 6 pour cent. Paris, 1863. sq. Q. pp. (1) + vii + 36. M. 5.

Toggenburgerbahn. Statuten der Toggenburgerbahn. Wattwyl, 1868. D. pp. 8. P. 9.
Cover title.

Torelli, L. Della necessità di congiungere la rete delle strade ferrate italiane colle rete elvetico-

germanica. Milano, 1863. O. pp. (1) + 5–51. P. 70.

Tössthalbahn. Zürich (*Kanton*). Bericht über die Töss-Korrektion; von K. Wetli, Kantonsingenieur. [Zürich, 1877.] O. pp. 23. 2 *fold. plates.* P. 9.

Tschudi: atlas du touriste sur les chemins de fer suisses. [*German title:*] Tschudi's Touristen-Atlas der Schweizer-Eisenbahnen. St. Gall, [1885?] pp. (7). 79 *maps*, 1 *fold. map.*

Turin—*Camera di Commercio ed Arti.* Progetto di nuovo valico delle Alpi italo-elvetiche pel San Bernardo; relazione di speciale commissione costituita dei Signori Locarni, relatore, Lanza, Tivoli, Peyrot, Sclopis. Torino, 1881. O. pp. 52. 1 *fold. map.* P. 69.

Vacani, — Sulle ferrovie d'Italia attraversanti Alpi e Appennini. [Milano, 1861?] F. pp. 12. 1 *fold. map.* M. 5.

"Memoria letta nella adunanza del giorno 7 giugno 1861 all' Ateneo di Milano."

"Estratto dalla dispensa 2ª, vol. 2, degli *Atti dell' Ateneo.*" Cover title.

Vanossi, G. Le ferrovie del Settimo, dello Splugа e del Maloja per Landeck. 2ª ed., amplicata. Chiavenna, 1886. O. pp. (5) + 5–141.

Author's presentation copy to "ing. cav. Domenico."

Vereinigte Schweizerbahnen. 1er, 4er–7er, 10er–12er, 14er–17er Rechenschaftsbericht umfassend das Jahr 1857, '60–63, '66–68, '70–73. St. Gallen, 1858–74. 12 vols. sq. Q.

Wädensweil-Einsiedeln. Bericht und Anträge der Verwaltungsbehörden an die Generalversammlung der Aktionäre, betreffend die Katastrophe vom 30. November 1876 und deren Folgen. Einsiedeln, 1877. O. pp. 16. P. 9.

Widmer, C. Die schweizerische Alpenbahn. Zürich, 1865. D. pp. 54. P. 11.

Wohlen-Bremgarten. 1er, 2er, 4er, 12er Jahresbericht und Rechnung des Directoriums der Schweiz. Centralbahn über die Bahnunternehmung Wohlen-Bremgarten fur das Jahr 1875, '76, '78, '86. Basel, [1876–87.] 4 vols. sq. Q.

Zürich-Zug-Luzern. 1er–18er, 25er Geschäftsbericht und Rechnung der Direktion der Schweiz. Nordostbahn uber die Eisenbahn-Unternehmung Zurich-Zug-Luzern, umfassend das Jahr 1862–79, '86. Zurich, 1863–[87.] 19 vols. sq. Q.

Zürichsee-Gotthardbahn. Technischer Bericht uber die projectirte Eisenbahn Rapperswyl-Brunnen; Brunnen-Rothkreuz: Zürichsee-Gotthardbahn, 1te, 2te Section. [Zürich, 10. März, 1874.] Q. pp. 39. M. 6.

Zwikel-Welti, G. Die Eisenbahnen der verschiedenen Staaten und ihr Einfluss in wirthschaftlicher Beziehung mit besonderer Berücksichtigung der Alpenbahnen. Lichtensteig, 1885. O. pp. 26. P. 11.

Oceanica.

I. AUSTRALASIA.

Geelong and Melbourne Railway—Great Britain — *Colonial Office.* Copy of a despatch from the Governor of Victoria to Her Majesty's government, respecting the affairs of the G. & M. ry. Ordered printed, 11 Aug., 1859. [Lond., 1859.] F. pp. 41.

In vol. "Great Britain. Colonial railways. 1."

Kandt, M. Ueber die Entwickelung der australischen Eisenbahnpolitik; nebst einer Einleitung über das Problem der Eisenbahnpolitik in Theorie und Praxis. Berlin, 1894. O. pp. xxxiv + (1) + 263.

New South Wales—*Commissioner for Railways.* Railways: report on their construction and working, from 1872 to 1875 inclusive; during 1876; by John Rae, commissioner. Sydney, 1876–77. 2 vols. F.

—— Report for the year 1877–1882. Sydney, 1878–83. 5 vols. F.

South Australia — *Railway Commissioners.* Annual report for the year 1890–91. Ordered printed, Nov. 19th, 1891. Adelaide, 1891. F.

Victoria — *Railway Department.* Report of observations on railways, made during a tour in 1874 & 1875, undertaken by direction of the government of Victoria; by Thomas Higinbotham, engineer-in-chief of railways. Lond., 1877. F. pp. 59.

Year-Book (The) of Australia for 1891–94. 10th–13th year. Melbourne, Sydney, [1891–94.] 4 vols. O.

Railways and tramways: 1891, pp. 209–244; 1892, pp. 289–318; 1893, pp. 241–270; 1894, pp. 225–252.

II. HAWAIIAN ISLANDS.

Oahu Railway. 2nd annual report and statement of accounts, for 1890. [Honolulu, Dec. 31, 1890.] O.

—— Prospectus. [Honolulu, Feb., 1889.] nar. F., folded to nar. O. pp. (3).

III. MALAY ARCHIPELAGO.

Post, J. W. Le réseau des chemins de fer de l'état à Sumatra. Paris, [1891.] F. pp. 20. 1 *fold. plate.*

"Extrait de la *Revue générale des chemins de fer*, no. de juillet 1891."

Economics.

Adams, C. F. *jr.* The railroad problem; a lecture delivered at the Lowell Institute, in Boston, Feb. 26, 1875. N.Y., 1875. D. pp. 19.

—— Railroads: their origin and problems. N. Y., 1878. D. pp. (3) + 216.

—— *Same.* Revised ed., with appendix. N.Y. and Lond., 1888. D. pp. (3) + 230.

Adams, W. B. Roads and rails and their sequences, physical and moral. Lond., 1862. O. pp. (2) + v–xii + 372.

Alexander, E. P. Railway practice; its principles and suggested reforms reviewed. [Railroad ed.] N. Y. and Lond., 1877. D. pp. (2) + 60. (Questions of the day, 36.)

Ambrozovics, B. Der gemeinwirthschaftliche Nutzen der Eisenbahnen und dessen Berechnung. Wien, 1888. O. pp. (2) + 55. 5 *figs.* P. 83.
"Auszugsweise vorgetragen im Ungarischen Ingenieur- und Architekten- Verein am 27. März 1884. Erschienen im Decemberhefte 1885 des Organes desselben Vereines. Nach einiger Ergänzung aus dem Ungarischen übersetzt vom Verfasser."

—— *Same, Italian.* Vantaggio economico delle strade ferrate e calcolo del medesimo. n.t.p. [Milano, 1888.] O. pp. 43. 5 *figs.* P. 72.
Extracted from *Il Politecnico*, 1888.

Audiganne, A. Les chemins de fer aujourd'hui et dans cent ans chez tous les peuples; économie financière et industrielle, politique et morale des voies ferrées. Paris, 1852–62. 2 vols. O. pp. (3) + 457; vii + 451.

Babcock, G. Railroads and rum. San Francisco, [1884.] D. pp. 24. P. 6.
Cover title.

Barthold, K. Wahrnehmungen bei der Entwickelung der Transportmittel. Berlin, 1886. O. pp. 115.

Bartholony, F. Résultats économiques des chemins de fer, ou observations pratiques sur la distribution des richesses créées par ces nouvelles voies de communication. Paris, 1844. O. pp. 40. P. 16.
"Moritz Mohl."

—— [Reyre, C. *and others.*] Du système de fermage simple des chemins de fer comparé au système de fermage avec fourniture et pose de rails. Réponse aux observations par F. Bartholony; par une compagnie de fermage simple. Paris, 1844. O. pp. 120. P. 16.

Berthault-Ducreux, — Exposé des faits et des principes sur lesquels repose la solution des principales questions que soulèvent les chemins de fer et les autres voies de communication. Paris 1841. nar. O. pp. (2) + 97. P. 63.
"Extrait des *Annales des ponts et chaussées.*"

Blois, — de. Sur l'avenir des chemins de fer. Paris, 1836. sq. Q. pp. (2) + 5–16. M. 9.

Chadwick, E. Address on railway reform. Lond., 1865. O. pp. 49. P. 43.
"National Association for the Promotion of Social Science."

Choron, L. Étude sur le régime général des chemins de fer. Paris, 1881. O. pp. (2) + 135.
Contents:—Principes économiques d'où résulte la solution de la question.—Modifications imposées par les nécessités de la pratique aux conclusions basées rigoureusement sur les principes économiques.

Cooley, C. H. The theory of transportation. [Baltimore,] 1894. O. pp. 148. (American Economic Association. Publications, vol. ix, no. 3.)

Crane, E. Abstract of an address on the subject of transportation, at the State House, Feb. 13th, 14th and 18th, 1868. Boston, 1868. O. pp. (3) + 5–40.
pp. 27–40. "Remarks of General Haupt."

Dornig, A. Usi ed abusi delle ferrovie: studi economici e sociali. Milano, 1883. O. pp. viii + 197 + (2).

Fairbairn, H. A treatise on the political economy of railroads; in which the new mode of locomotion is considered in its influence upon the affairs of nations. Lond., 1836. O. pp. xvi + 248. 3 *figs.*

Few reasons (A) in favor of the restoration of the original policy of the general [United States] government, in relation to railroads. n.p., 1856. O. pp. 44. P. 1.
"The object of the following pages is to show that it is the duty of the government, that the law passed in 1832, for refunding duties paid on railroad iron, should be revived."

Galt, W. Railway reform: its importance and practicability considered as affecting the nation, the shareholders and the government. Lond., 1864. O. pp. (2) + 242.
"For private circulation only."

—— *Same.* Lond., 1865. O. pp. (3) + vii–xliv + 405.

Gilpin, W. The cosmopolitan railway; compacting and fusing together all the world's continents. San Francisco, 1890. O. pp. v + (1) + 369. 7 *maps*, 4 *fold. maps.*

Godwin, G. *jr.* An appeal to the public on the subject of railways. Lond., 1837. O. pp. (4) + 7–45. P. 39.

Gordon, A. Observations addressed to those interested in either rail-ways or turnpike-roads, showing the comparative expedition, safety, convenience and public and private economy of these two kinds of road for internal communication. Lond., 1837. O. pp. 31. P. 47.

Hadley, A. T. Railroad problems of the immediate future. Boston, 1891. O. pp. (7). P. 4.
Extracted from the *Atlantic monthly*, vol. 67, March, 1891. pp. 386–393.

—— Railroad transportation: its history and its laws. N. Y. and Lond., 1885. D. pp. iv + (1) + 269.

—— *Same, French;* traduit par A. Raffalovich

et L. Guérin; précédé d'une préface par A. Raffalovich. Paris, 1887. O. pp. (3) + xvii + 391.

Hartwich, E. H. Bemerkungen über Transportmittel und Wege sowie über Gestaltung und Verwaltung des Eisenbahnwesens nach Maassgabe der Verhältnisse und Bedürfnisse. Berlin, 1875. O. pp. (3) + 42.

Haushofer, M. Eisenbahngeographie; eine Darstellung des modernen Weltverkehrs mit besonderer Berücksichtigung der Eisenbahnen. Stuttgart, 1875. O. pp. vii + 373.

Hogg, A. The railroad as an element in education; an address before the State Teachers' Association of Texas, June 28, 1883, Galveston, Texas. Louisville, 1884. O. pp. 22. 3 *cts.*, 1 *map.* P. 6.

—— *Same;* an address before the International Congress of Educators, World's Exposition, New Orleans. Ed. of 1887, with addenda. Louisville, 1887. sq. D. pp. 52. 6 *cts.*, 1 *map.* P. 6.

How, J. F. The protection of railroad interests. Chicago, 1893. O. pp. 9. P. 83.

Hudson, J. F. The railways and the republic. N.Y., 1886. O. pp. (3) + 489.

Iles, G. The railroad problem in the United States. N. Y., 1883. O. pp. (15). P. 3.
Extracted from the *Popular science monthly*, vol. 23. July, 1883.

Jastrow, J. Geography and the railroads. N. Y., 1884. O. pp. (5). P. 6.
Translated from *Das Ausland.*
Extracted from the *Popular science monthly*, vol. 25. June, 1884. pp. 230-235.

Jeans, J. S. Railway problems; an inquiry into the economic conditions of railway working in different countries. Lond., 1887. O. pp. (3) + vii-xxviii + 560.

Larrabee, W. The railroad question; a historical and practical treatise on railroads, and remedies for their abuses. 3d ed. Chicago, 1893. D. pp. 488.

Limousin, C. M. Le commerce et les chemins de fer; rapport présenté au Syndicat général de l'Union nationale du commerce et de l'industrie. Paris, 1883. D. pp. (9) + 13-214.

[M., C.] Railways compared with canals and common roads, and their uses and advantages explained. Edinburgh, Lond., 1825. D. pp. (2) + 5-66.
Signed "C. M." "The substance of a series of papers published in the *Scotsman*, and now republished with additions and corrections."

Mason, J. M. The railway problem. (Condensed). [Charlestown, 188-]. O. pp. (1) + 17. P. 2.

Morgan, A. The people and the railways; a popular discussion of the railway problem in the United States, by way of answer to "The railways and the republic," by James F. Hudson, and with an examination of the Interstate commerce law. N. Y. and Chicago, 1888. D. pp. (5) + 9-245.

—— Railroads and trade-centers. N.Y., 1888. O. pp. (8). P. 4.
Extracted from the *Popular science monthly*, vol. 32. Jan., 1888. pp. 332-339.

Pope, A. A., *compiler.* Wagon roads as feeders to railways. Boston, 1892. O. pp. 22.

Proudhon, P. J. Des réformes à opérer dans l'exploitation des chemins de fer et des conséquences qui peuvent en résulter, soit pour l'augmentation du revenu des compagnies, soit pour l'abaissement des prix de transport, l'organisation de l'industrie voiturière, et la constitution économique de la société. Paris, 1855. D. pp. (2) + 392.

Railway reform: in a letter to the president of the Board of Trade: a plan for the systematic reform of the railways of the United Kingdom by legislative enactment. Lond., 1865. D. pp. (2) + 172.

Railway reform; its expediency and practicability considered; with a copious appendix, containing a description of all the railways in Great Britain and Ireland; fluctuations in shares. Lond., 1843. O. pp. (2) + 108. P. 97.

—— *Same.* 3d ed., revised and considerably enlarged. Lond., 1844. O. pp. (4) + 116. P. 40.

Richter, E. Die Entwickelung der Verkehrs-Grundlagen: Eisenbahnen, Flüsse, Kanäle und Landstrassen. Leipzig, 1873. O. pp. (2) + v-xii + 200.

Robinson, H. P. *and* **Hobart, H. R.,** *editors.* The rights and wrongs of the railway question. Chicago, 1893. O. pp. (2) + 5-57. P. 84.
Reprinted from the *Railway age and Northwestern railroader.*

Sax, E. Die Verkehrsmittel in Volks- und Staatswirthschaft. Wien, 1878-79. 2 vols. bd. in 1. O. pp. x + 372; viii + 552.
Contents:—1. Land und Wasserwege.—Post und Telegraph.—2. Die Eisenbahnen.

Schreiber, J. F. Die Eisenbahnen als öffentliche Verkehrseinrichtungen und ihre Tarifpolitik. Wien, Pest, Leipzig. 1887. O. pp. xvi + 263.

Ships and railways. Lond., 1846. O. pp. 40.

Slee, J. D. F. Obstacles to material progress, as illustrated in the discussion of the railroad question. [Elmira, N. Y., 1880.] O. pp. (1) + 20. P. 2.
Read before "Our Club," Elmira, New York, October 14, 1880.

[Spencer, H.] Railway morals and railway policy. n.p., 1854. D. pp. (42). P. 65.
Extracted from the *Edinburgh review*, vol. 100, October, 1854. pp. 420-461.

—— *Same;* with additions and a postscript by the author. Lond., 1855. S. pp. (1) + 116. P. 65.

Stickney, A. B. The railway problem. St. Paul, Minn., 1891. D. pp. vii + 249. 1 *map*, 9 *diagrs.*, 6 *fold. diagrs.*

Thurber, F. B. The railroads and the people. N. Y., 1880. O. pp. (8.) P. 77.
Extracted from *Scribner's monthly illustrated magazine*, vol. 21, December, 1880. pp. 258-265.

Troup, J. Railway reform and rights of shareholders and the public in the railway highways of the United Kingdom. Lond., 1846. O. pp. 39.

Weichs-Glon, F. *Freiherr* **zu.** Das finanzielle und soziale Wesen der modernen Verkehrsmittel. Tübingen, 1894. O. pp. vii + 252.

Whitney, J. A. Industrial notes of railway travel in Western Europe and of a transcontinental tour in the United States. N. Y., 1882. O. pp. (2) + 5-114. P. 51.

I. AGRICULTURE AND RAILWAYS.

Atkinson, E. The railroads of the United States a potent factor in the politics of that country and of Great Britain. Boston, 1880. O. pp. ix + 3-48 + 36. 2 *fold. tables.*
Cover title: "The railroads of the United States: their effects on farming and production in that country and in Great Britain."
Appendix contains: Product of the principal crops of the United States for 1879.—Commercial progress: how it has been advanced by the railroads.—Account of a Californian farm.
In vol. "Railroad and the farmer. Pamphlets."

—— The railway, the farmer, and the public. Reprinted with revision. N. Y., 1885. S. pp. (2) + 68. 1 *fold. table.* (Economic tracts, 19.)
Reprinted from *Manufacturer's gazette*, Aug. 9, 1884.

—— *and others.* The railroad and the farmer, nos. I and II, and The standard of adequate railroad service; by Edward Atkinson. The relation of the railroads to agriculture, an address by Francis D. Moulton. Report of the committee of American Agricultural Association on transportation, Dr. J. M. Bailey, chairman. N. Y. and Chicago, [1882?] O. pp. (138).
From the *Agricultural review and Journal of the American Agricultural Association.*

Davis, C. W. The farmer, the investor and the railway. Boston, 1891. D. pp. (20).
Extracted from the *Arena*, vol. 3, Feb. 1891. pp. 291-313.

Jeans, J. S. American railways and British farmers. Lond. & N. Y., 1890. O. pp. (18).
Extracted from the *Nineteenth century*, vol. 28, Sept. 1890. pp. 392-409.

Johnson, C. W. *and* **G. W.** The advantages of railways to agriculture, by C. W. Johnson. Observations on the general importance of railways, by G. W. Johnson. 2nd ed. Lond., 1837. O. pp. 16. P. 39.

On railroads through farming districts. n.t.p. D. pp. 14.
"Extracted from the *Edinburgh quarterly review.*"

II. CANALS AND RAILWAYS.

Carro, T. Les chemins de fer et la navigation intérieure: le halage accéléré des bateaux par l'électricité et par l'air comprimé; applications stratégiques et agronomiques de la navigation. Meaux, Paris, 1893. O. pp. 124 + (1). 11 *figs.*

Chevalier, M. Die Eisenbahnen im Vergleich mit den Wasserstrassen; aus dem Französischen übersetzt von F. L. Lindner. Stuttgart und Tübingen, 1838. O. pp. (1) + 37. P. 54.

Detector, *pseud.* Conveyance upon canals and rail-roads compared. Lond., 1831. O. pp. 17. P. 54.

James, E. J. *and* **Haupt, L. M.** The canal and the railway, with a note on the development of railway passenger traffic; by Edmund J. James. Canals and their economic relation to transportation; by Lewis M. Haupt. [Baltimore,] 1890. O. pp. 85. P. 4. (American Economic Association Publications, vol. v., nos. 3 and 4.)
"List of principal authorities," p. 7.

Johnson, E. R. Inland waterways, their relation to transportation. Philadelphia, 1893. O. pp. (2) + 5-164.
"Supplement to the *Annals of the American Academy of Political and Social Science.* September, 1893." "Bibliography of works consulted," pp. 157-160.

Nördling, W., *Ritter* **von.** Die Selbstkosten des Eisenbahn-Transportes und die Wasserstrassen-Frage in Frankreich, Preussen und Oesterreich. Wien, 1885. sq. Q. pp. viii + 232. 2 *figs.*, 11 *fold. maps and diagrs.*

—— Zels, L. Die Selbstkosten des Eisenbahn-Transportes und die Wasserstrassen-Frage: eine Polemik gegen das gleichnamige Buch des Herrn Wilhelm Ritter von Nördling. Wien, 1886. O. pp. (3) + 5-32. P. 54.
"Separat-Abdruck aus der Fachwochenschrift *Danubius.*"

Shehyn, J. Railways versus watercourses; the influence of railways on continental and inland traffic and their bearing upon the natural and artificial watercourses of the United States and Canada. Quebec, 1884. O. pp. 126. P. 3.
"A paper read before the Quebec Board of Trade, 20th November, 1883." Cover title.

Sympher, — Transportkosten auf Eisenbahnen und Kanalen. 2e, unveränderte Auflage. Berlin, 1885. O. pp. iv + (1) + 112. 5 *figs.*, 1 *fold. plate.* P. 54.

III. FINANCE.

Ashley, O. D. The stock market and the railway problem. n.t.p. O. pp. 22. P. 4.

Baum, C. Résultats de l'exploitation des chemins de fer français; étude économique. Lille, 1877. O. pp. 57. P. 16.
"Hommage de l'auteur."

B[ury, W. C. K., *Viscount.*] Facts for the times! No. 2: railway finance; by "B." Lond., 1867. O. pp. 32. P. 43.
Reprinted from the *Pall Mall gazette.*

Chattaway, E. D. Railways: their capital and dividends, with statistics of their working in Great Britain and Ireland. Lond., 1855–56. S. pp. (5) + 133. P. 79.

Child, J. G. T. Railway debentures secured by a scheme for the establishment of a railway debenture insurance association; in a letter to Sir Daniel Gooch. Manchester, 1867. O. pp. 12. P. 43.

Coates, T. Railway deposits discussed. Lond., 1864. O. pp. 23. P. 43.

Cooke, L. Observations on renting and rating railways, on the depreciation of the moveable stock, and mode of computing the tenant's profit; in a letter to David Waddington. Lond., 1848. O. pp. 15. P. 44.
"To the editor *Railway record.*"

Evans, D. M. The commercial crisis 1847–1848; facts and figures illustrative of the events of that period, considered in relation to the three epochs of the railway mania, the food and money panic, and the French Revolution. Lond., 1848. O. pp. viii + 151 + lxxx.

Fabré, V. Notions économiques; application aux tarifs et à la gestion des chemins de fer. Paris, 1862. O. pp. 47. 1 *fold. plate.* P. 63.

Greene, T. L. The advance in railroad securities. N. Y., 1895. O. pp. (7).
Extracted from the *Engineering magazine*, July, 1895. pp. 673–679.

—— The railroads and Wall street. N. Y., 1892. O. pp. (7). P. 97.
Extracted from the *Engineering magazine*, June, 1892. pp. 372–378.

Kingdom, W. Suggestions for the liquidation of the national debt, by means of railway property, and for the increase at the same time of railway dividends. 2d ed. Lond., 1855. D. pp. 14. P. 31.

Marschall-Bieberstein, — Eisenbahnen und Geldverhältnisse mit besonderer Beziehung auf die sächsisch-bayrische Eisenbahn, und die Schriften von . . . u und A. v. Thielau. Dresden, 1847. O. pp. vi + (1) + 72. P. 19.

Parke, G. A letter on railway dividends, with important suggestions on debentures. Whitby, Eng., 1853. O. pp. 20. P. 42.

Perrot, J. Der Eisenbahn-Actienschwindel; Resultate des Actiensystems im Eisenbahnwesen. Rostock, 1873. D. pp. (3) + vii–xv + 235. (Der Bank-, Borsen-, und Actienschwindel: eine Hauptursache der drohenden socialen Gefahr. 1.)

Sterne, S. Railway reorganization. N. Y., 1890. O. pp. (17). P. 4.
Extracted from the *Forum*, vol. 10, Sept. 1890. pp. 37–53.

Van Oss, S. F. American railroads as investments; a handbook for investors in American railroad securities. N. Y., Lond., 1893. O. pp. (3) + vii–xv + 815 + (2) + vii. 5 *fold. maps.*

Whitehead, J. Railway finance. Lond., [1867.] O. pp. 21. P. 43.

—— Railway and government guarantee: which is preferable? Facts and arguments to shew that guaranteed railway stock offers a better investment than do government securities. 7th ed. Lond., 1850. O. pp. 54 + (2). 1 *fold. table.* P. 42.

Wrigley, T. Railway reform; a plan for the effectual separation of capital from revenue. Bury, Eng., [1867.] O. pp. (2) + 5–23. P. 43.

IV. MONOPOLIES.

Ashley, O. D. Railway corporations and the people; a paper read before the Round Table, St. Louis, Mar. 11, 1893. [N. Y., 1893.] O. pp. 27. P. 97.

Baker, C. W. Monopolies and the people. N. Y. and Lond., 1889. D. pp. xv + 263. (Questions of the day, 59).
"Monopolies of transportation and communication" etc.

Bonham, J. M. Industrial liberty. N. Y. and Lond., 1888. D. pp. ix + 414.
"The relation of the railway and the "trust" to industrial liberty," etc.

—— Railway secrecy and trusts. N. Y. and Lond., 1890. D. pp. (2) + 5–138. (Questions of the day, 61.)

Cloud, D. C. Monopolies and the people. Davenport, Iowa, 1873. O. pp. (3) + iii–viii + 9–162.
"The Pacific railroad iniquity"; "How the land grant railroads 'develop' a country," etc.

Cook, W. W. The corporation problem: the public phases of corporations, with a discussion of the questions to which they have given rise. N. Y. and Lond., 1891. D. pp. vi + 262.
Chiefly concerns itself with railways.

Gordon, A. Observations on railway monopolies, and remedial measures. Lond., 1841. O. pp. 57.

Relations of railroad corporations to the public. n.t.p. [N. Y., 1849]. O. pp. 8. P. 97.
"From *Hunt's merchant's magazine*, for Dec. 1849."

V. RAILWAYS AND THE STATE.

Cohn, G. Streitfragen der Eisenbahnpolitik. Berlin, 1874. O. pp. 40. P. 18.
Deutsche Zeit- und Streit-Fragen. Jahrgaug 3, Heft 45.

Hole, J. National railways; an argument for state purchase. Lond., Paris, and Melbourne, 1893. D. pp. (3) + vii-xvi + 385.

Pew, A. Notes on government railroads. Atlanta, Ga., 1894. O. pp. 68.

Schindler, *Rabbi* **S.** The nationalization of railroads. Boston, 1893. O. pp. (4). P. 31.
Extracted from the *Arena*, vol. 7, Jan., 1893. pp. 209-212.

Todd, *Mrs.* **M.** Railways of Europe and America; or, Government ownership. Boston, 1893. D. pp. viii + (1) + 11-293.

United States—*Department of State*. [Report on the relations of the governments of the nations of Western Europe to the railways; prepared by Simon Sterne.] Ordered printed, Feb. 17, 1887. n.t.p. [Washington, 1887.] O. pp. 45.
"In vol. "Interstate commerce act. Pamphlets. 1."

Waring, C. State-purchase of railways. Lond., 1887. O. pp. (2) + v-xi + 204.

Weber, M. M. *Freiherr* **von.** Nationalität und Eisenbahn-Politik. Wien, Pest, Leipzig, 1876. O. pp. (2) + 5-111 + (1).

—— Privat, - Staats - und Reichs - Bahnen. Wien, Pest, Leipzig, 1876. O. pp. 94 + (1). (Populare Erörterungen von Eisenbahn-Zeitfragen. 4.)

a. AUSTRIA.

Kaizl, J. Die Verstaatlichung der Eisenbahnen in Oesterreich. Leipzig, 1885. O. pp. viii + 123.

Tarifreform und Eisenbahn-Verstaatlichung in Oesterreich. Prag, 1886. O. pp. 12. P. 30.
Cover title.

b. FRANCE.

Aucoc, L. Les tarifs des chemins de fer et l'autorité de l'état. Paris, 1880. O. pp. 44 + (1). P. 29.
"Extrait du *Compte-rendu de l'Académie des sciences morales et politiques.*"

—— Ueber die zur Entwickelung des französischen Eisenbahn-Netzes angewendeten Mittel und insbesondere die Vertrage, betreffend die Staatsgarantie und die Theilung des Reinertragnisses; mit Beilagen versehen und Deutsch herausgegeben von Wilhelm von Nördling. Wien, 1875. O. pp. (3) + iii-viii + 191 + (1). 1 *fold. map.*

Bresson, L. Du régime et du rachat des chemins de fer. Paris, 1882. Q. pp. 79 + (1). M. 9.
Cover title.

Calonne, A. de. Les chemins de fer et l'état. Paris, 1882. D. pp. (2) + 87 + (1). P. 31.

Considérations sur le rachat des chemins de fer. Paris, 1882. O. pp. (2) + 7-44. 3 *fold. tables.* P. 30.

Duverger, V. Le régime des chemins de fer français devant le Parlement: 1871-1887. Paris, 1887. O. pp. (3) + 371.

Feldmann, A. De la garantie d'intérêt due par l'état aux compagnies de chemins de fer. Paris, 1894. O. pp. (2) + 55.

Graux, G. Les conventions avec les grandes compagnies. Paris, 1883. O. pp. (3) + 127 + (1).

Jacqmin, F. Étude sur l'exploitation des chemins de fer par l'état. Paris, 1878. O. pp. (2) + 104. P. 30.
"Extrait de la *Revue des deux mondes*, du 15 mars 1878."

Jaij, A. Des relations financières entre les chemins de fer et l'état et de leur influence sur le dividende. Paris, 1874. O. pp. 27 + 11. P. 63.
"Extrait du *Journal des actuaires français*, t. 2, 1873, et t. 3, 1874."

Labry, — de. Étude sur les rapports financiers établis pour la construction des chemins de fer entre l' état et les six principales compagnies françaises: 1e partie: des conventions. Paris, 1875. O. pp. (2) + v-viii + 119. 5 *fold. tables.*
"Extrait des *Annales des ponts et chaussées.*"

—— Surveillance par l'état de la gestion financière des chemins de fer en France. Paris, 1876. O. pp. (2) + 5-13. P. 17.
"Extrait du *Journal des économistes*, septembre, 1876."

La Gournerie, J. de. Études économiques sur l' exploitation des chemins de fer. Paris, 1880. O. pp. (3) + 182.

Lamane, H. La question des chemins de fer: le rachat. 3e ed. Paris, 1880. O. pp. 41. P. 31.

Le Courtois, J. Le remboursement anticipé des obligations des compagnies de chemins de fer et la loi du 3 septembre 1807. Paris, 1880. O. pp. (1) + 5-70 + (1). P. 17.
"Extrait de *La France judiciaire.*"

Lejeune, C. La question des chemins de fer devant le Parlement en 1882: le rachat et les tarifs. Paris, 1882. O. pp. (2) + 32.
"Extraits des *Mémoires de la Société des Ingénieurs civils.*"

Level, É. Les chemins de fer devant le Parlement: l'exploitation par l'état et par l'industrie privée. Paris, 1880. Q. pp. (2) + 75.

Marteau, A. La question des chemins de fer: les nouvelles conventions avec les grandes compagnies. Havre, 1883. O. pp. 31. P. 63.
"Extraits du *Journal du Havre* des 21, 22, 23, 26 et 27 juin 1883."

Neymarck, A. Les chemins de fer devant le Parlement. Paris, 1880. O. pp. (2) + 5-60. P. 17.

Nöel, O. L'achèvement du réseau et les con-

ventions avec les grandes compagnies. Paris, 1883. O. pp. 35.
"Extrait de la *Revue britannique*, juin 1883."

—— Conséquences financières et économiques des conventions de 1859. Paris, 1883. O. pp. 30.
"Extrait de la *Revue britannique*, avril 1883."

—— Les nouvelles conventions entre l'état et les grandes compagnies. Paris, 1883. O. pp. 30.
"Extrait de la *Revue britannique*, juillet 1883."

—— Le réseau de l'état et le budget. Paris, 1883. O. pp. 20.
"Extrait de la *Revue britannique*, février 1883."

—— Le réseau de l'état et le déficit. Paris, 1884. O. pp. 32.
"Extrait de la *Revue britannique*, mars 1884."

—— Le socialisme d'état et la question économique en France: I. Le rachat des chemins de fer. Paris, 1882. O. pp. 64.
"Extrait de la *Revue britannique*, mai 1882."

Paixhans, J. Les compagnies de chemins de fer et l'état. Paris, 1880. O. pp. (2) + 5–47 + 4. P. 63.
"Extrait du *Journal des économistes* d' août, 1880."
Appended, "Le remède à l'arbitraire des tarifs différentiels." "A M. le sécretaire général du Ministère des travaux publics. J. Paixhans."

Pereire, I. La question des chemins de fer. Paris, 1879. O. pp. (2) + 5–213 + (1). 5 *fold. maps.*

Poujard'hieu, G. Solution de la question des chemins de fer: de l'extension des réseaux et des nouvelles conventions. Paris, 1859. O. pp. (2) + 5–75 + 16. P. 63.
Appended, "Réponse au *Constitutionnel* et aux autres journaux."

[Surell, —] Note sur l'exécution des chemins de fer par l'état. n.t.p. [Paris, 1867.] O. pp. 8. P. 63.
"Extrait des *Annales des ponts et chaussées*, tome 16, 1868."

Thoviste, M. Étude sur les conventions financières conclues entre l'état et les compagnies de chemins de fer. Paris, 1886. O. pp. (2) + 296 + (1).

Tourneux, F. Chemins de fer: du concours de l'état. Paris, 1840. O. pp. (2) + iii + 9–30. P. 63.

c. Germany.

Bemerkungen des Vereins der Privat-Eisenbahnen im Deutschen Reiche über den dem preussischen Abgeordnetenhause am 25. März 1876 vorgelegten Entwurf eines Gesetzes betreffend die Uebertragung der Eigenthums- und sonstigen Rechte des Staates an Eisenbahnen auf das Deutsche Reich. Berlin, 1876. O. pp. 28. P. 18.

Great Britain—*Foreign Office.* Report by Sir John Walsham, chargé d'affaires at Berlin, on the purchase of private railway lines by the Prussian government. Lond., 1883. F. pp. (2).
Extracted from *Reports from Her Majesty's diplomatic and consular officers abroad.* Part 8. [1883.]

M., G. Die Erwerbung der deutschen Eisenbahnen durch das Reich; volkswirthschaftliche Studie. Berlin, 1876. O. pp. 45. P. 31.

Marcus, V. Gegen die Verstaatlichung der preussischen Privatbahnen. Berlin, 1879. O. pp. 30. (Volkswirthschaftliche Zeitfragen. Heft 7.) P. 30.

Mohl, M. Die Frage von Reichs-Eisenbahnen erörtert. Stuttgart, 1876. O. pp. viii + 119. 3 *fold. tables.*

Neumann, J. *and* **Freystadt, E.**, *compilers.* Reichs-Eisenbahnen! Materialien zur Beurtheilung der deutschen Eisenbahnfrage; zusammengestellt von der Redaction des "*Berliner Actionair.*" Berlin, 1876. O. pp. 122. P. 30.

Perrot, F. Deutsche Eisenbahnpolitik. Berlin, 1872. O. pp. 79. P. 18. (Deutsche Zeit- und Streit-Fragen. Jahrgang I, Heft 3–4.)
"Moriz Mohl."

Prussia. The argument for state railroad ownership; a translation of the document submitted to the Prussian Parliament by the Cabinet in 1879, with a bill granting the power and means necessary for acquiring several important railroads then owned by private corporations. N.Y., 1880. D. pp. 64.

Schreiber, — Die preussischen Eisenbahnen und ihr Verhältniss zum Staat, 1834–1874. Berlin, 1874. O. pp. (2) + 87. P. 30.

Varnbüler, — *Freiherr* **von.** Soll das Reich die deutschen Eisenbahnen erwerben? Stuttgart, 1876. D. pp. 100. P. 31.

Wagner, — Ueber Verstaatlichung der Eisenbahnen und über sociale Steuerreform: zwei Landtagsreden gehalten im preussischen Abgeordnetenhause am 19. und 22. Februar, 1883: Bericht herausgegeben vom Conservativen Central-Comité in Berlin. Berlin, 1883. O. pp. 43. P. 31.

d. Great Britain and Ireland.

Cohn, G. Untersuchungen über die englische Eisenbahnpolitik. Leipzig, 1874–83. 3 vols. O. pp. xiii + 370; xii + 646; viii + 196.
Contents:—1. Die Entwickelung der Eisenbahngesetzgebung in England.—2. Zur Beurtheilung der englischen Eisenbahnpolitik.—3. Die englische Eisenbahnpolitik der letzten zehn Jahre, 1873–1883.

Great Britain—*Parliament*—3 & 4 *Vict.* An act for regulating railways. [Royal assent,] 10th August, 1840. n.t.p. [Lond., 1858.] F. pp. 765–771.

—— —5 & 6 *Vict.* An act for the better regulation of railways. [Royal assent], 30th July, 1842. n.t.p. [Lond., 1870.] F. pp. 709–718.

—— —14 & 15 *Vict.* An act to repeal the act for constituting Commissioners of railways. [Royal assent,] 7th August, 1851. n.t.p. [Lond., 1851.] F. pp. 617–618.

—— — 29 & 30 *Vict.* An act to enable the Public Works Loan Commissioners to make temporary advances to railway companies in Ireland. [Royal assent,] 10th August, 1866. n.t.p. [Lond., 1866.] F. pp. 873–876.

—— — 30 & 31 *Vict.* An act to authorize the extension of the period for repayment of advances made under the Railway companies (Ireland) temporary advances act 1866. [Royal assent,] 20th August, 1867. n.t.p. [Lond., 1867.] F. pp. 1557–1558.

—— — 31 & 32 *Vict.* An act to authorize the further extension of the period for repayment of advances made under the Railway companies (Ireland) temporary advances act 1866. [Royal assent,] 31st July, 1868. n.t.p. [Lond., 1868.] F. pp. 781–782.

—— — 31 & 32 *Vict.* An act to amend the law relating to railways. [Royal assent,] 31st July, 1868. [Lond., 1888.] F. pp. 1157–1180.

—— — 34 & 35 *Vict.* An act to amend the law respecting the inspection and regulation of railways. [Royal assent,] 14th August 1871. n.t.p. [Lond., 1871.] Q. pp. 16.

—— — 36 & 37 *Vict.* An act to make further provision for the regulation of railways. [Royal assent,] 5th August, 1873. n.t.p. [Lond., 1874.] O. pp. 4.

—— — 37 & 38 *Vict.* An act to amend the powers of the Board of Trade with respect to inquiries, arbitrations, appointments, and other matters under special acts, and to amend the Regulation of railway act, 1873, so far as regards the reference of differences to the Railway commissioners in lieu of arbitrators. Royal assent, 30th July, 1874. n.t.p. [Lond., 1874.] O. pp. 3.

—— — 42 & 43 *Vict.* An act to continue for a further period the Regulation of railways act, 1873 & 1874. [Royal assent,] 15th August, 1879. n.t.p. [Lond., 1879.] Q. p. 1.

—— — 52 & 53 *Vict.* An act to amend the Regulation of railway acts. [Royal assent,] 30th August, 1889. n. t. p. [Lond., 1889.] Q. pp. (1) + 4.

Hercules, *pseud.* British railways and canals in relation to British trade and government control. Lond., [1885.] S. pp. (2) + 234.

Williams, A. J. The appropriation of the railways by the state. Lond., 1870. S. pp. x + (1) + 140. 1 *fold. map.* P. 65.

e. Italy.

Baccarini, A. Le ferrovie italiane e il Parlamento. Roma, 1881. sq. O. pp. 196.

Choisy, E. de. Questioni finanziarie. Torino, 1876. sq. S. pp. 47. P. 83.

Contents:—Del riscatto delle ferrovie: proposta per semplificarne l'acquisto.—I biglietti emessi dal Consorzio necessità di un biglietto unico de circolazione.

Compagna, A. La questione delle ferrovie: appunti e studii. Napoli, 1890. S. pp. (2) + 5–88. P. 83.

Gabelli, F. Il riscatto delle ferrovie. Padova, 1876. O. pp. (1) + 5–158.

[Lampugnani, L.] Notizie e studi sulla questione dell' esercizio delle strade ferrate in Italia. Roma, 1883. O. pp. 123. P. 72.

"Estratto dal *Giornale dei lavori pubblici e delle strade ferrate.*"

Loria, L. L'esercizio delle ferrovie italiane. Torino, 1877. O. pp. 31. P. 72.

Sciard, C. Les chemins de fer en Italie considérés comme une propriété de l' état et grands instruments de la production et de la richesse nationale: du rachat par l' état. Paris, 1867. O. pp. (6) + 571 + (2). 2 *fold. tables.*

Spaventa, S. Lo stato e le ferrovie; riscatto ed esercizio. Milano, 1876. D. pp. vii + 287.

Tatti, L. Del concorso dello stato nella spesa di costruzione delle ferrovie. Milano, 1878. O. pp. 24.

"Estratto dal giornale *La Perseveranza.*"

—— Sul tema se convenga affidare l'esercizio delle ferrovie in Italia al governo od a privati. Milano, 1878. O. pp. (2) + 5–27.

"Estratto dal giornale *La Perseveranza.*"

Tellier, H. La question des chemins de fer d' après l' enquête parlementaire sur l' exploitation des chemins de fer d' Italie. Bruxelles, Rome, Milan, 1883. O. pp. (2) + 5–75. P. 72.

Zannetti, C. Politica ferroviaria: l' esercizio delle ferrovie nazionali all' industria privata in semplice affitto? Oppure come spediente per un prestito mascherato onde evitare nuove emissioni di rendita, creando: un enorme e pericoloso monopolio a danno del credito e delle finanze dello stato e del libero svolgimento economico del paese? Milano, [1883.] O. pp. 28. P. 72.

Zanolini, C. Il riscatto e l' esercizio governativo delle ferrovie in relazione agli interessi militari. Roma, 1876. O. pp. 48. P. 72.

f. Switzerland.

Beleuchtung der Broschüren des Herrn Stampfli über den Rückkauf der schweizerischen Eisenbahnen. Zurich, 1863. S. pp. (2) + 106. P. 7.

"Aus der *Neuen Zurcher Zeitung* besonders abgedruckt."

Berthoud, J. *and* **Jeanhenry, A.** De la compétence de la confédération relativement à l'exploitation des chemins de fer; rapports pré-

sentés à la Société des Juristes Suisses, Neuchatel le 25 septembre, 1871. Neuchatel, 1871. O. pp. 74. P. 7.

Stüssi, H. Ueber die Subvention schweizerischer Eisenbahnunternehmungen. Bern, 1875. sq. Q. pp. 69.
"Separatabzug aus der *Zeitschrift für schweiz. Statistik.*" Cover title.

Switzerland. Der Einfluss der Eisenbahnen; mit besonderer Berücksichtigung der nicht industriellen Theile der Schweiz: Bericht des eidgenössischen Post- und Bau-Departements, verfasst von Wilhelm Schmidlin. Basel, 1851. O. pp. 50. P. 7.

—— Schweizerische Eisenbahnen: Bericht und Anträge der Majorität der nationalräthlichen Kommission; vom Mai 1852. Bern, [1852.] O. pp. 206 + (2). 10 *fold. tables*, 2 *fold. profiles.*
"Das Eisenbahnwesen in der Schweiz soll eine nationale Schöpfung sein."

W., A. G. Ist der Rückkauf unserer Eisenbahnen zur Zeit praktikabel und wünschenswerth? Zurich, 1887. O. pp. (2) + 5-54 + (1).

Zschokke, O. Betrieb der schweizerischen Eisenbahnen unter Leitung des Bundes. Zürich, 1877. O. pp. 98. P. 10.

g. United States.

Adams, C. F., *jr.* An address, delivered at Oshkosh, Wis., Sept. 3, 1875: "Which will quickest solve the railroad question: force bills or public opinion?" n.p., n.d. O. pp. 20.
Cover title.

—— The regulation of all railroads through the state-ownership of one: speech on behalf of the Mass. Board of Railroad Commissioners, made before the joint standing legislative committee on railways, Feb. 14, 1873. Boston, 1873. O. pp. (2) + 5-39.

—— The state and the railroads. Boston, 1876. O. pp. (1) + 352-365.
"Reprinted from the *Atlantic monthly* for July, 1876. For distribution by the Southern Railway and Steamship Association."

Alexander, E. P. Reply to circular no. 19 of the Railroad Commission of Alabama [on railroad legislation and regulation.] Louisville, Ky., 1881. D. pp. 20.
Cover title.

American Economic Association. The railway question: the report of the committee on transportation, of the American Economic Association; with the paper read May 21-25, 1887, on "The agitation for federal regulation of railways," by Edmund J. James. [Baltimore,] 1887. O. pp. 68. P. 94. (American Economic Association Publications, vol 2, no. 3.)

Association of Land Commissioners of the Land Grant Railways of the United States. Railway land grants in the United States: their history, economy and influence upon the development and prosperity of the country; prepared for the association by E. H. Talbott, sec'y. Chicago, 1880. O. pp. (2) + 5-66.
In vol. "Railway land grants. Pamphlets."

Atwater, L. H. The regulation of railroads. N. Y., 1880. O. pp. (23). P. 2.
Extracted from the *Princeton review*, vol. 7. N. S., 1880. pp. 406-428.

[Blackstone, T. B.] The danger and wrong of existing legislation concerning railways; a review of its results: government ownership of railways advocated, instead of the present public policy. Chicago, 1890. O. pp. 39. P. 94.
"Extracts from the Director's report of the Chicago & Alton railroad."

Blair, C. H. Proposed national legislation for railroads in the United States. [N. Y.,] 1888. O. pp. (3) + 3-15. P. 4.

California—*Assembly.* Assembly bill no. 16, introduced by Mr. Murdock, March 27, 1884: An act to propose an amendment of the constitution, relative to the Board of railroad commissioners. n.t.p. [Sacramento, 1884.] sq. Q. pp. 3.

—— Assembly resolution, introduced by Mr. Wallace, March 27, 1884. n.t.p. [Sacramento, 1884.] sq. Q. pp. 3.
"Whereas, certain railways in this State, now operated by railroad corporations created by this State, were built and put in operation almost wholly by the direct or indirect use of the moneys of the people, Resolved, That the said railways are in their origin and nature subject to such legislative control as in the judgment of the representatives of the people will best promote the public use for which alone they were intended."

—— Report of the committee on corporations. [Sacramento, 1883.] O. pp. 176 + (1).
"In assembly, Jan. 12, 1883. Resolved, That the committee on corporations be hereby instructed to institute all due and proper inquest into the official acts of the late retired Railroad commissioners."

—— —*Commissioners of Transportation.* Supplementary report to the legislature [submitting drafts of bills prepared for the purpose of carrying into effect reforms proposed.] [Sacramento, 1878.] sq. Q. pp. 4 + 22 + 3 + 5 + 2.

—— —*Legislature.* An act to create the office of Commissioner of transportation, and define its powers and duties; to fix the maximum charges for transporting passengers and freights on certain railroads; and to prevent extortions and unjust discriminations thereon. [Sacramento, 1878.] O. pp. 24.
Cover title.

—— *Same.* [Another ed.] Sacramento, 1878. O. pp. 21.

—— Acts relating to the powers and duties of the Board of railway commissioners. Sacramento, 1880. O. pp. 8.

—— — *Senate.* Report of the testimony and proceedings taken before the Senate committee on constitutional amendments, relative to Senate constitutional amendment no. 8, abrogating provisions of said constitution as to Railroad commission, and placing distance tariff in constitution. [Sacramento, 1893.] O. pp. x + 235. 1 *fold. diagr.*

—— Testimony taken before the judiciary committee in considering Assembly bill no. 10, concerning the regulation of railroads, generally known as the Barry bill. April, 1884. Sacramento, 1884. O. pp. 228.

Clark, F. C. State railroad commissions, and how they may be made effective. Baltimore, 1891. O. pp. (4) + 7–110. 1 *fold. map*, 5 *fold. tables.* (American Economic Association Publications, vol. 6, no. 6.)

Dabney, W. D. The public regulation of railways. N. Y. and Lond., 1889. D. pp. v + 281. (Questions of the day, 60.)

Depew, C. M. Argument before [New York] Assembly committee on railroads, in opposition to the bills providing for the creation of a Board of railroad commissioners. March 16, 1881. [N. Y., 1881.] O. pp. 30.
Cover title.

—— Argument before the [New York] Assembly committee on railroads, in opposition to the bill "An act to regulate the transportation of freight by railroad corporations," and also the bill "An act to create a Board of railroad commissioners and to define and regulate their powers and duties." March 17, 1880. Albany, 1880. O. pp. 30.

—— Argument before the [New York] Assembly railroad committee against the Railroad commission bills, and the Anti-freight discrimination bills. March 9, 1882. Albany, 1882. O. pp. 35.

—— *Same.* [Another ed.] Reported by James M. Ruso. Albany, 1882. O. pp. 35.

—— The state and the railroads; argument before the special investigating committee of the New York Assembly, at the Chamber of Commerce, Nov. 28 and 29, 1879. N. Y., 1880. O. pp. 76.

Fink, A. The legislative regulation of railroads: what should be the limit of interference? N. Y., 1895. O. pp. (12).
Extracted from the *Engineering magazine*, July, 1895.

Gage, N. L. Kansas railroads and the old Board of railroad commissioners. Topeka, 1884. O. pp. 86.

—— The relations of Kansas railroads to the State of Kansas. Topeka, 1884. O. pp. 27.

Industrial freedom. Boston, 1892. O. pp. 63. P. 94. (Copley Square series, vol. 1, no. 3. June, 1892.)
Contents:—2. The railroad problem; by Lionel A. Sheldon. pp. 14-23.—4. Should the government own the railroads? by C. Wood Davis. pp. 36–63.
Cover title.

Kirkman, M. M. Railway rates and government control; economic questions surrounding these subjects. Chicago and N. Y., 1892. D. pp. 354.

Lansing, G. L. The railway and the state. N. Y., 1884. O. pp. (15). P. 31.
Extracted from the *North American review*, May, 1884.

Lewis, G. H. National consolidation of the railways of the United States. N. Y., 1893. D. pp. (3) + iii–xv + 326.

Mann, E. D. Shall the government own our railways? N. Y., [1894.] D. pp. 16. P. 94.
Cover title.

Midgley, J. W. The effect of restrictive legislation upon the railways of Wisconsin and the material interests of the state. Chicago, 1876. O. pp. (2) + 20. P. 1.

New York, *pseud.* Legislative restrictions on the carrying trade of the railways of the State of New York, viewed in connection with outside competition. N. Y., 1860. O. pp. 32. P. 51.

New York—*Board of Railroad Commissioners.* Form for the annual reports of the railroad companies of New York, for the year ending Sept. 30th, 1856. n.p., n.d. sq. Q. pp. (2) + 5–82.

Niles, H. T. Railroad transportation: its regulation by state and national authority. Urbana, O., 1881. O. pp. 8. P. 94.
Cover title.

Nimmo, J. *jr.* The limitations of governmental regulation of the railroads. Washington, 1894. O. pp. 28.
"An argument before the Committee on Interstate and Foreign Commerce of the House of Representatives, March 9, 1894, and before the Senate Committee on Interstate Commerce, April 3, 1894."

—— The railroad problem: the impracticability of governmental ownership and control of railroads in the United States as proved by facts of history. N. Y., 1891. O. pp. 8.
"From the *New York tribune* of Aug. 18, 1891."

Ohio—*Commissioner of Railroads and Telegraphs.* Special report ["whether any railroad companies in the State are specially protected by their charters from legislative control," etc.] Columbus, 1881. O. pp. 73.

[S.] Review of Matt. Carpenter's speech on the Potter law of Wisconsin: [upon the right of the people of the State to control railroads and other corporations by their legislature.] n.t.p. O. pp. 16. P. 1.
Signed "S."

Sanderson, S. W. An opinion as to the power of legislatures over the charters of private

corporations where the constitution of the state provides that such charters may be "altered from time to time, or repealed" and especially railroad corporations. San Francisco, 1875. O. pp.57.
In vol. "Railway rates in California. Pamphlets."

Stanford, L. Communication respecting certain railroad companies of California, to the committee on corporations of the legislature of California. n.p., 1876. O. pp. 16.
Cover title.

—— Communication to the committee on corporations of the Senate [of California.] n.t.p. [San Francisco, Jan. 22, 1874.] O. pp. (2).

State railroad commissions: ten years' working of the Massachusetts railroad commission. Railroad commission laws of all states that have commissions. N. Y., 1883. D. pp. 72.

United States—*49th Congress*—*2d Session.* An act authorizing an investigation of the books, accounts, and methods of railroads which have received aid from the United States, and for other purposes. [Approved March 3, 1887.] n.t.p. [Washington, 1887.] O. pp. 5.
This and the three next following titles, in vol. "Railway land grants. Pamphlets. 1."

—— An act to provide for the adjustment of land grants made by Congress to aid in the construction of railroads and for the forfeiture of unearned lands, and for other purposes. [Approved March 3, 1887.] n.t.p. [Washington, 1887.] O. pp. 2.

—— — *Department of the Interior.* Railroad indemnity withdrawals: answers filed under the rule entered on certain railroad companies to show cause why lands formerly withdrawn for indemnity purposes should not be restored to the public domain. [Washington, 1887.] O. pp.(2) + 5-102.

—— — *House of Representatives.* A bill [H. R. 5026] to provide for the adjustment of land-grants made by Congress to aid in the construction of railroads, and for other purposes. [Read Feb. 18, 1884.] n.t.p. [Washington, 1884.] Q. pp. 10.

University of Wisconsin Twenty-third annual joint debate of the literary societies of the University of Wisconsin, Jan. 19, 1894; Question: "Would the national ownership and operation of the railroads in the United States be preferable to ownership and operation by private corporations?" Madison, 1894. 2 pts. bd. in 1 vol. Q. pp. 4; ii + 119-156.
Bibliography pp. 152-154.
The *Ægis*, vol. 8, nos. 8 and 10.

Wells, D. A. The relation of the federal government to the railroads; or, a review of the controversy between the Post Office Department of the United States and the railways, in respect to the so-called postal car service. N. Y., 1874. O. pp. 57. P. 1.

Wilson, J. F. Government regulation of railways. N. Y., 1888. O. pp. (8). P. 94.
Extracted from the *Forum*, June 1888, vol 5. pp. 469-476.

1. *Interstate Commerce.*

Adams, C. F. *jr.* The interstate commerce act: its operation and its results. Address at the dinner of the Commercial Club of Boston, Dec. 15, 1888. Boston, n.d. O. pp. 9.
Cover title.

Blanchard, G. R. Argument before the committee on commerce of the House of Representatives in opposition to the pending bill for the regulation of inter-state commerce. March 14, 15, 16 and 17, 1882. N. Y., 1882. O. pp. (2) + 5-216.

—— Argument before the committee on commerce of the Senate, in opposition to the Reagan bill, for the regulation of inter-state commerce by railway, Feb. 11, 1879. N. Y., 1879. O. pp. 68.

—— Congressional legislation as to inter-state railway traffic; a review of the bill proposed by J. H. Reagan. N. Y., 1884. O. pp. 15.
"Reprinted from the *New York daily tribune* of Feb. 23, 1884."

Brown, J. E. Interstate commerce; speech in the Senate, Jan. 16 and 17, 1885; general remarks on railroads, competition and pooling and the carrying like commodities a longer distance for less money, discussed. Washington, 1885. O. pp. 22. P. 95.

Budd, J. H. Interstate commerce; speeches in the House of Representatives, Dec. 10 and 19, 1884, and Jan. 7, 1885. Washington, 1885. O. pp. 23.
In vol. "Interstate commerce act. Pamphlets. 1."

Chittenden, L. E. Interstate commerce; argument before the committee on commerce, House of Representatives, Jan. 29, 1884. n.t.p. [Washington, 1884.] O. pp. 15.
In same.

Dos Passos, J. R. The inter-state commerce act: an analysis of its provisions. N. Y. and Lond., 1887. D. pp. xiii + 125. (Questions of the day, 36.)

Fink, A. Argument before the committee of commerce of the House of Representatives on the Reagan bill, for the regulation of interstate commerce, Jan. 14, 15, 16, 1880. N. Y., 1880. O. pp. 80.

—— *Same:* The railroad problem and its solution; argument before the committee on commerce of the House of Representatives, in opposition to the bill to regulate interstate commerce. Jan. 14, 15, 16, 1880. N. Y., 1882. O. pp. 84.

—— Regulation of interstate commerce by Congress; testimony before the select committee

on interstate commerce of the Senate; New York, May 21, 1885. Washington, 1885. O. pp. 40.

Haymond, C. Interstate commerce law: short and long-haul clause. n.p., [1889?] O. pp. 3–27.
In vol. "Interstate commerce act. Pamphlets. 1." Cover title.

[Leonard, F. M.] The inter-state commerce act of Feb. 4, 1887, with a summary of its provisions. Philadelphia, 1887. O. pp. 15.
Cover title.

—— *Same.* [Another ed.] Philadelphia, 1887. O. pp. 15.
Cover title. Both in vol. "Interstate commerce commission. Pamphlets. 4."

Light on the law: a reference book on "The act to regulate commerce"; comprising the interstate commerce law, as enacted, the original Reagan and Cullom bills, debates in Congress on railway regulation, interpretations of the law by railway officials and associations, etc. Chicago, 1887. D. pp. (2) + 5–215. *frontisp.*

Palmer, T. W. Governmental regulation of railroads; speech in the Senate, April 14, 1886. Washington, 1886. O. pp. 16.
In vol, "Interstate commerce act. Pamphlets. 1."

Pillsbury, E. S. *and* **Blanding, G.** "The inter-state commerce act" not applicable to express carriers; opinion of Pillsbury & Blanding, attorneys for Wells, Fargo & Co., San Francisco. [San Francisco, April 12, 1887.] O. pp. 22.
Cover title.

Seward, C. A. Before the Senate committee on inter-state commerce: remarks on behalf of the Adams express company on the proposed amendments to the act to regulate commerce. Washington, Feb. 1, 1888. O. pp. 47.

Stanford, L. Interstate commerce: speech in the Senate, Jan. 10, 1887. Washington, 1887. O. pp. (1) + 8.
In vol. "Interstate commerce act. Pamphlets. 1."

United States—*Congress.* The act to regulate commerce, as amended, together with acts supplementary thereto. Washington, 1893. O. pp. 28.
In vol. "Interstate commerce commission. Pamphlets. 4."

—— — *49th Congress—2d Session.* An act to regulate commerce: approved, Feb. 4, 1887. n.t.p. [Washington, 1887.] O. pp. 10.
This and the next following title in vol. "Interstate commerce act. Pamphlets. 1."

—— — *50th Congress—2d Session.* An act to regulate commerce: as amended March 2, 1889. n.t.p. [Washington, 1889.] O. pp. 13.

—— — *House of Representatives.* Arguments and statements before the committee on commerce in relation to certain bills referred to that committee, proposing congressional regulation of interstate commerce: [argument of Wayne MacVeagh and others.] n.t.p. [Washington, 1882.] O. pp. 269.

—— *Same:* [argument of Mr. Green, and others.] n.t.p. [Washington, 1884.] O. pp. 176.

—— — *Interstate Commerce Commission.* Annual report of [the —— railroad] to the Interstate Commerce Commission of the United States for the year ending June 30, 1888. n.p., n.d. sq. Q.
Blank form for annual reports to the Commission.

—— *Same:* for the year ending June 30, 1890. n.p., n.d. sq. Q.

—— Book of instructions for the guidance of carriers in making annual reports, as required by section 20 of the act to regulate commerce. Washington, 1888. O. pp. 26.
In vol. "Interstate commerce commission. Pamphlets. 1."

—— Circular [giving notice of the provisions of the act, in respect to joint tariffs.] Washington, March 7, 1889. broadside. sq. O.

—— [Circular on the subject of the publication of joint tariffs.] Washington, 8th March, 1889. broadside. Q.

—— Classification of operating expenses as prescribed by the commission in accordance with section 20 of the act to regulate commerce. Washington, 1888. O. pp. 27.

—— *Same.* Revised issue. Washington, 1889. O. pp. 27.

—— Methods of carriers and requirements of the act to regulate commerce, in the matter of construction, publication and filing of rate schedules. Dec. 1, 1891. Reissued Aug. 15, 1894. Washington, 1894. O. pp. 34.
In vol. "Interstate commerce commission. Pamphlets. 4."

—— *Senate.* Debate on interstate commerce [49th Congress, 1st session.] n.t.p. [Washington, 1886.] O. pp. 566.

—— *Same.* [49th Congress, 2nd Session.] n.t.p. [Washington, 1887.] O. pp. 608 + 10.

—— In the Senate, Feb. 16, 1886: Mr. Cullom, from the select committee on transportation by railroad between the several states, reported the following bill; which was read the first and second times by unanimous consent: a bill to regulate commerce. n.t.p. [Washington, 1886.] Q. pp. 21.

—— In the Senate, Dec. 15, 1886: Mr. Cullom, from the committee of conference on the disagreeing votes of the two houses on the amendment of the House to the bill (S. 1532) "to regulate commerce," submitted the following conference report. Ordered printed, Dec. 15, 1886. n.t.p. [Washington, 1886.] O. pp. 10.

—— Report of the Senate select committee on interstate commerce; with appendix. Submitted, Jan. 18, 1886. Washington, 1886. O. pp. v + 216 + 258.

—— Report of the Senate select committee on interstate commerce: testimony. Submitted, Jan. 18, 1886. Washington, 1886. O. pp. (1) + 1478.

Wilson, J. F. Extract from the argument of Jas. F. Wilson, on the Reagan inter-state commerce bill, delivered before the committee on commerce of the House of Representatives, Jan. 20, 1880: a western view of the question. Washington, 1880. O. pp. 10.
This and the one next following in vol. "Interstate commerce act. Pamphlets. 1."

Wood, H. The interstate "long and short haul." N. Y., 1888. O. pp. (5).
Extracted from the *Popular science monthly*, vol. 22, Feb., 1888. pp. 537-541.

VI. RAILWAYS IN POLITICS.

Aldrich, C. *and* **Hubbard, N. M.** Bribery by railway passes. N. Y., 1884. O. pp. (11). P. 3.
Extracted from the *North American review*, vol. 138, Jan., 1884. pp. 89-99.

Davis, A. McF. Corporations in politics. San Francisco, 1881. O. pp. (12). P. 97.
Extracted from *The Californian*, Aug., 1881. pp. 140-151.

Depew, C. M. Against railroad men: Mr. Depew talks of the public prejudice. N.Y., 1890. 2 columns. F[6].
Extracted from the *New York daily tribune*, April 2, 1894. p. 4.

—— Railway men in politics. N.Y., 1890. O. pp. (4).
Extracted from the *North American review*, vol. 151, July, 1890. pp. 86-89.

Gilbert, H. T. The railroads and the courts. Ottawa, Ill., 1885. O. pp. xxiv + 592.

Julian, G. W. Railway influence in the Land Office. N. Y., 1883. O. pp. (20).
Extracted from the *North American review*, vol. 136, March, 1883. pp. 237-256. In vol. "Railway land grants. Pamphlets."

VII. RATES.

a. Continental Europe.

Aucoc, L. Les tarifs des chemins de fer et l'autorité de l'état. Paris, 1880. O. pp. 44. P. 29.
"Extrait du *Compte-rendu de l'Académie des sciences morales et politiques.*"

Austria—*Handels-Ministerium.* Eisenbahn-Tarif-Enquête, 1882-1883. Wien, 1882-83. 2 pts. bd. in 1 vol. Q. pp. (1) + 55; (3) + 505.
Contents:—**1.** Verfügung der Regierung: Anträge der Enquête.—**2.** Beilagen-Band.

—— Uebersicht der Eisenbahntarife, auf welche sich die Verhandlungen der Tarif-Enquête beziehen und welche am 1. April 1882 in Kraft gewesen sind. [Wien, 1884.] sq. Q. pp. 52.

Baum, C. Les tarifs des chemins de fer de l'état en Allemagne. Paris, 1887. O. pp. (2) + 5-92. P. 31.
"Extrait des *Annales des ponts et chaussées*, juillet, 1887."

Boinvilliers, É. Des transports à prix réduits sur les chemins de fer. Paris, 1859. O. pp. (4) + 167.

Braschi, E. Le tariffe delle strade ferrate considerate sotto l'aspetto economico e ridotte a sistema. Milano, Napoli, Pisa, 1882. O. pp. vi + 383.

Brière, A. Des tarifs de chemins de fer au point de vue de la concurrence étrangère. Paris, 1880. sq. Q. pp. (2) + 5-56.

—— Quelques notions sur les tarifs de chemins de fer. Paris, 1881. sq. Q. pp. 98.

Bröckelmann, E. Gegen den Levantetarif und die Verallgemeinerung der kombinirten Eisenbahn-Seefracht-Tarife. Hamburg, 1893. O. pp. 19.

Colson, C. Transports et tarifs: précis du régime des routes et chemins, canaux et rivières, ports de mer, chemins de fer: lois économiques de la détermination des prix de transport, prix de revient, statistique du trafic: tarifs de chemins de fer français, comparaisons avec les principaux pays étrangers. Paris, 1890. O. pp. (3) + 479. 3 *charts.*

Einheitliche (Der) deutsche Eisenbahn-Gütertarif; eine Fachstudie über das Tarifwesen der deutschen Eisenbahnen. Berlin, 1879. O. pp. (3) + 71 + (6). P. 29.
"Moritz Mohl."

Eisenbahnfrachten (Die) und das Sinken der Preise; ein Beitrag zur socialen Frage von einem Industriellen. Berlin, 1886. D. pp. 52.

Engel, E. Eisenbahnreform. Jena, 1888. O. pp. (4) + 218 + (1).

—— Seligman, E. R. A. [Review of] Eisenbahnreform; von Eduard Engel. N. Y., 1890. O. pp. (3). P. 4.
Extracted from *Political science quarterly*, vol. 5, Sept., 1890. pp. 526-528.

Frankenstein, K. Materialien zur Beurtheilung der Eisenbahnpolitik und des Eisenbahntarifwesens in Russland. Berlin, 1894. O. pp. 63.
Bibliography, p. 4.

Great Britain — *Board of Trade.* Railway goods rates: despatch from J. A. Crowe, containing a summary of 14 days' debate in the French Chamber of Deputies, on railway goods rates. Lond., 1886. F. pp. (2) + 5-16.
In vol. "Great Britain ry. rates. Misc., 1886-93."

Heinsius, — Die allgemeinen Tarifvorschriften nebst Güterklassification; Theil I Abschnitt B des deutschen Eisenbahngütertarifs. Berlin, 1885. O. pp. 114.

Hoch, F. Erster Versuch einer Lösung der

Eisenbahn-Tariffrage in Russland. St. Petersburg, 1885. O. pp. (10) + 167.
"Nach den Verhandlungen und Beschlüssen der unter dem Vorsitz des Staatssecretärs von Hübbenet am 3. Juni 1883 Allerhöchst eingesetzten Tarifcommission."

Hungary. Le tarif par zones et ses résultats; publié par la Direction des Chemins de Fer de l'état hongrois. Budapest, 1892. O. pp. xix + 89. P. 29.

Jacob, M. Le rachat et les tarifs de chemins de fer en France et à l'étranger. Paris, 1882. O. pp. 62. P. 31.

Jullien, A. Du prix des transports sur les chemins de fer de la Belgique, en 1842 et en 1843. Paris, 1844. O. pp. (2) + 68. P. 29.
"Extrait des *Annales des ponts et chaussées.*"

Krantz, J. B. Observations au sujet des prix de transport, des tarifs et du rachat des chemins de fer. Paris, 1882. O. pp. (2) + 74.

Manara, U. Tariffe speciale e trasporti fatti in modo speciale. Napoli, 1885. O. pp. 48. P. 29.
"Estratto dal *Filangieri*, 1884-1885."

Rank, E. Grundsätze für den Abschluss von Eisenbahn-Tarifcartellen. Leipzig, 1890. O. pp. 143 + (1). 1 *chart.*

Reitzenstein, E. Die Gütertarife der Eisenbahnen, insbesondere das Gewichts-und Wagenraumtarifsystem. Berlin, 1874. O. pp. (3) + 96. P. 29.

Schoeller, E. Ueber die Staffeltarife im Allgemeinen und uber den erstellten Ausnahmetarif für landwirthschaftliche Produkte im Besonderen. Breslau, 1894. O. pp. 28.

Schreiber, J. F. Das Tarifwesen der Eisenbahnen, dessen betriebsökonomische Aufgaben und Stellung im wirthschaftlichen und socialen Staatsleben der Gegenwart. Wien, Pest, Leipzig, 1884. O. pp. viii + 256. (Bibliothek des Eisenbahnwesens. Bd. II.)

Ulrich, F. Das Eisenbahntarifwesen im Allgemeinen und nach seiner besonderen Entwickelung in Deutschland, Österreich-Ungarn, der Schweiz, Italien, Frankreich, Belgien, den Niederlanden und England. Berlin und Leipzig, 1886. O. pp. xii + 504.

—— *Same, French.* Traité général des tarifs de chemins de fer, contenant une étude spéciale des tarifs appliqués en Allemagne, Autriche-Hongrie, Suisse, Italie, France,, Belgique, Hollande, Angleterre et Russie. Édition française, revue par l'auteur. Paris, 1890. O. pp. (2) + x + 555.

—— Personentarifreform und Zonentarif. Berlin, 1892. O. pp. (2) + 157.

—— Staffeltarife und Wasserstrassen. Berlin, 1894. O. pp. (3) +234.

Wetherell, J. J. Railroad passenger tariffs in Austria. [Philadelphia, 1891.] O. pp. (7). P. 95.
"Reprinted from *Annals of the American Academy of Political and Social Science*, Jan., 1891."

—— Zone-tariff in Hungary; [including abstract of a paper by E. J. James: A new system of passenger fares.] [Philadelphia, 1890. O. pp. 29. P. 95.
"Reprinted from *Annals of the American Academy of Political and Social Science*, July, 1890."

b. Great Britain and Ireland.

Acworth, W. M. Can railway-passenger fares be lowered? Lond., 1891. O. pp. (14).
Extracted from the *Nineteenth century*, Sept., 1891. pp. 400-413.

—— The railways and the traders: a sketch of the railway rates question in theory and practice. Popular ed. Lond., 1891. D. pp. (2) + 5-16 + 378.

B., F. Observations and suggestions on the railways of the United Kingdom, showing how the same may be immediately rendered more serviceable and beneficial to the public generally than they now are, and much more remunerative to their proprietors. Lond., 1868. O. pp. 12. P. 43.

Bolton, *England—Corporation.* Railway rates and charges; a general statement concerning rates and charges in operation upon British railways, and of other matters relating thereto. Bolton, 1887. O. pp. (1) + 88.

Brandon, R. Railways and the public: how to make railways remunerative to the shareholders, beneficial to the public and profitable to the state. Lond., 1869. O. pp. 22. P. 44.

—— *Same,* 2d ed.: Railways and the public: proving that fares for any distance of 1st class 1s., 2nd class 6d., 3rd class 3d., would be remunerative to the shareholders, beneficial to the public and profitable to the state. Lond., 1869. O. pp. 31. P. 44.

Browne, J. H. B. The railway and canal traffic act, 1888: hearing of objections to revised classifications of merchandise traffic and schedules of maximum rates and charges proposed by various railway companies: speech of J. H. B. Browne, reprinted from the official minutes for the Lancashire & Cheshire conference on railway rates and charges. Manchester, [1890?] O. pp. 191.
Cover title.

Gray, J. W. Facts and observations concerning railway rates, and practical suggestions relating to the proposed revised classification of merchandise traffic by the Board of Trade. Shipley, Yorkshire, 1889. D. pp. 42. P. 51.

Great Britain—*Board of Trade.* The railway and canal traffic act, 1888; Board of Trade rules with respect to the submission of revised classifications of merchandise traffic and revised schedules of maximum rates and charges applicable thereto (so far as regards railways). Ordered printed, 23 Nov., 1888. Lond., [1888.] F. pp. 10.

This and the five next following in vol. "Great Britain. Ry. and canal traffic act, 1888. Misc., 1888-93."

—— The railway and canal traffic act, 1888: draft rules proposed to be made by the Board of Trade with respect to classification of merchandise traffic, and schedules of maximum rates and terminal charges applicable thereto. Ordered printed, 10 August, 1888. Lond., [1888.] F. pp. 10.

—— The railway and canal traffic act, 1888: report of proceedings under section 31 of the railway and canal traffic act, 1888. Lond., 1893. F. pp. 25.

—— Railway and canal traffic act, 1888: report on the classification of merchandise traffic, and schedule of maximum rates applicable thereto, determined in respect of the Great Eastern railway [and eight others.] Ordered printed, 18 August, 1890. Lond., [1890.] 9 pts. F.

—— Railway and canal traffic act, 1888: return giving the names of the railway companies and railways jointly owned, leased or worked, comprised in the Railway rates and charges orders, confirmation bills, nos. 1 to 26, showing in which of such bills the respective companies and railways are included. Presented Feb. 11, 1892. Lond., 1892. F. pp. 6.

—— —*House of Commons.* 1st, 2nd report from the select committee on railway rates and charges; with the proceedings of the committee, minutes of evidence, and appendix. Ordered printed, 22 August, 14 December, 1893. Lond., [1893.] 2 vols. bd. in 1. F. pp. xii + 512; xxxii + 99.

—— Report from the select committee on railways (rates and fares); with the proceedings of the committee, minutes of evidence, and appendix. Ordered printed, 27 July, 1882. [Lond., 1882.] F. pp. lxxxviii–545.

—— Report from the standing committee on trade, on the railway and canal traffic (H. L.) bill; with the proceedings of the committee. Ordered printed, 16 July, 1888. Lond., [1888.] F. pp. 29.

—— —*Parliament*—55 *Vict.* Report from the joint select committee of the House of Lords and the House of Commons, on the railway rates and charges provisional order bills; with the proceedings of the committee, minutes of evidence, and index. Ordered printed, 1 August, 1891. Lond., [1891.] 2 vols. F. pp. lxviii + (4) + 3-1767.

Paged continuously.

—— Report from the joint select committee of the House of Lords and the House of Commons, on the railway rates and charges provisional bills; with the proceedings of the committee, and minutes of evidence. Ordered printed, 16 May, 1892. Lond., [1892.] F. pp. lvi + 715.

Grierson, J. Railway rates, English and foreign. 2d thousand. Lond., 1886. O. pp. (2) + v-viii + 208 + lxxii.

Haggard, F. T. A mile of railway in the United Kingdom. Lond., 1869. O. pp. (1) + 3–40. P. 44.

—— Railway facts and lower fares. Lond., 1869. O. pp. 16. P. 44.

Pope, J. B. Railway rates and radical rule; a series of practical questions vitally affecting the interests of traders and agriculturists throughout the country, and suggested to them for consideration, as electors. Lond., 1884. D. pp. (4) + 364.

Waghorn, T. *and* **Stevens, M.** Railway and canal traffic act, 1888: report upon the proceedings at the enquiry held by the Board of Trade, 1889–90. Manchester, 1890. 2 pts. F. pp. (3) + 158; pp. 205. 17 *diagrs.*

—— *Same.* [Introductory synopsis.] n.t.p. [Manchester, 1890.] F. pp. 7.

In vol. "Great Britain railway and canal traffic act. Misc., 1888–93."

c. United States.

Alexander, E. P. Argument on railroad bills before judiciary committee legislature of Alabama, February, 1881. n.p. [1881.] D. pp. 28.

—— Reply to questions of the special committee on railroad transportation of the New York Chamber of Commerce. n.t.p. [Louisville, April 6, 1881.] D. pp. 36.

Cover title.

—— *Same.* Louisville, 1881. D. pp. 36.

Cover title.

Apthorp, H. Two-cent railroad fare and other railroad legislation in Ohio. Akron, O., 1892. O. pp. 42. P. 51.

Brooks, J. W. The pro rata question; remarks before the committee on railroads of the Senate and Assembly of the State of New York, March 30, 1869. Albany, 1869. O. pp. 25. 1 *fold. map.* P. 1.

California—*Assembly.* Report of the committee on corporations upon railroad freights and fares. [Sacramento, 1871.] O. pp. 78 + (1).

—— *Same.* Appendix. [Sacramento, 1871.] O. pp. 130.

Report and Appendix in vol. "Railway rates in California. Pamphlets. 2."

—— — *Senate.* Report of the testimony and proceedings had before the Senate committee on corporations, having under consideration the subject of fares and freights. [Sacramento, 1874.] O. pp. (1) + 9–161.

Chicago—*Board of Trade.* Report of committee on railroad discriminations, submitted Feb. 7, 1876. Chicago, 1876. O. pp. 23. P. 1.

Curtis, G. T. Letter to H. J. Jewett, on the relations of rail roads to the State and the United States in the matter of freight charges; answer to Judge Black. N.Y., 1880. O. pp. 15. P. 2.
Cover title.

Curtis, W. G. The relation of railroad transportation to production in California. n.t.p. [San Francisco, 1894.] O. pp. 11. P. 95.
A paper read before the Technical Society of the Pacific Coast, Oct. 5, 1894.

Degrand, P. P. F. An address on the advantages of low fares, and low rates of freight, practically illustrated by the deep researches of the British, French and Belgian governments; unanimously approved and adopted, and ordered to be published, by a meeting of gentlemen friendly to internal improvements, held in Boston, Dec. 3, 1840. Boston, 1840. O. pp. 39. P. 95.
Cover title.

Doyle, J. T. Railroad rates, and transportation overland; in a letter to a member of Congress. San Francisco, 1893. O. pp. (1) + 17. P. 95.

Fink, A. Cost of railroad transportation, railroad accounts, and governmental regulation of railroad tariffs. Louisville, 1875. O. pp. (2) + 51–95 + 20–48.
Tables, pp. 20–48. "Extract from the Annual report of the Louisville & Nashville railroad co."

—— Report upon the adjustment of railroad transportation rates to the seaboard. N. Y., 1882. O. pp. 59. 1 *fold. table.*

Hadley, A. T. Railway passenger rates. N. Y., 1891. O. pp. (6). P. 4.
Extracted from the *Forum*, vol. 11. April, 1891. pp. 215–220.

Hammond, C. G. The pro rata question; remarks before the committees on railroads of the Senate and Assembly of the State of New York, March 30, 1869. Albany, 1869. O. pp. 9. P. 1.

Hepburn, B. A. Proceedings before the [New York] Assembly committee on railroads, on the bill entitled: An act to regulate the transportation of freight by railroad corporations: remarks of B. A. Hepburn, in support of the bill. Albany, 1880. O. pp. 30.
In vol. "New York railway rates. Pamphlets."

Iowa—*Senate.* Report of committee on railroads as per resolution of Senate, no. 4. Des Moines, 1882. O. pp. 16.

Jeffery, E. T. Remarks before the Board of railroad and warehouse commissioners of Illinois, at Springfield, 2d Sept., 1887. [a protest against the rate and classification promulgated by the Board.] Chicago, printed, [1887.] O. pp. 32.
Cover title.

—— Remarks before the House committee on railroads of the Iowa legislature at Des Moines, Feb. 8, 1888. Chicago, printed, [1888.] O. pp. 20.

Jewett, H. J. Letter of the *Railway age* to Hugh J. Jewett, and his reply relative to railway management. [Chicago, 1881.] O. pp. 12. P. 2.
Cover title.

Kirkman, M. M. The relation of the railroads of the United States to the people and the commercial and financial interests of the country: the elements that determine the rates that shall be charged. Chicago, [1885.] O. pp. 54.

Lansing, G. L. Discrimination in railway rates. N. Y., 1886. 2 pts. O. pp. (14); (10).
Extracted from the *Popular science monthly*, vol. 28. Feb. and March, 1886. pp. 494–507; 586–595.

—— Natural principles regulating railway rates. Chicago, 1887. O. pp. 44.

Maryland — *House of Delegates.* Testimony taken before a special committee under an order passed on the 23d Jan., 1860, to inquire into the allegations of discriminations against the citizens of Maryland, by the Baltimore and Ohio railroad. Baltimore, 1863. O. pp. 32.

Massachusetts—*Board of Railroad Commissioners.* Regulation of fares and freights by law. Chicago, 1873. O. pp. 28. P. 1.
"Extract from 4th annual report."

Michigan—*Commissioner of Railroads.* Special report in regard to equal mileage rates. Lansing, 1877. sq. O. pp. 12. P. 1.

Morgan, R. P. Report [to the Railroad commissioners of California] upon what would be just and equitable rates of freights and fares for the railroads of California. n. p., [1892.] O. pp. 60. 1 *fold. map*, 19 *fold. tables.*
In vol. "Railway rates in California. Pamphlets. 3."

National Anti-Monopoly Cheap-Freight Railway League. Reform in railroad management by securing equal rights and cheap transportation; statement of the views and objects of the League; arranged for publication by Henry O'Rielly. [Document 1–VIII. May–Dec., 1867.] N. Y., 1867. 7 vols. O.
Lacking no. 2.

New York (*City*)—*Board of Trade and Transportation.* The duties and relations of railroad corporations to the public: report of the special committee on railway freight grievances. [N.Y.,] 1883. O. pp. 8. P. 97.
Cover title.

—— "Have small shippers the right to exist?" [N. Y., 1887.] O. pp. 8. P. 97.
Cover title.
"A pamphlet, containing the arguments submitted to the Inter-State Commerce Commission against the new trunk line west-bound classification of freight."

New York (*State*)—*Assembly*. Report of a majority of the select committee on petitions for regulating freights on railroads in this State. Transmitted to the Legislature, Feb. 1, 1860. Albany, 1860. O. pp. 24. P. 1.
Cover title.

—— Proceedings before the Assembly committee on railroads on the bill entitled: An act to regulate the transportation of freight by railroad corporations. March 9, 1880. Albany, 1880. O. pp. 59.
In vol. "New York. Railway rates. Pamphlets."

—— —— —— *Special Committee to Investigate Railroad Abuses.* ("*Hepburn Committee.*") An act [proposed] to authorize the formation of railroad corporations and to regulate the same. n.t.p. [N. Y., 1880.] O. pp. 89.
In vol. "Railroad investigation 1879. Miscellaneous."

—— Exhibits [before the committee]: New York Central and Hudson River railroad and New York, Lake Erie & Western railroad. N.Y., 1879. O. pp. 13 + 643.

—— Proceedings of the committee. N. Y., 1879. 4 vol. O. pp. (1) + iv + 4036 + 164.
Paged consecutively. Index in vol. "Railroad investigation 1879. Miscellaneous."

—— [Proceedings of the sub-committee consisting of Messrs. Terry, Husted and Noyes; Sept. 9, 1879.] n.t.p. [Albany, 1879.] O. pp. 168. 10 *fold. tables.*
In same.

—— Report [by E. Sweet, jr. to] Chas. S. Baker, chairman of sub-committee on elevated roads [on the affairs and management of the elevated roads in New York city.] n.t.p. [Albany, 1879.] O. pp. 27.
In same.

—— Report of the committee. Albany, 1879. O. pp. 78 + 25. 1 *fold. plate.* P. 86.

—— *Same.* [Another ed.] Albany, 1880. O. pp. 78 + 25. 1 *fold. plate.*

—— Report of the minority, submitted to the Assembly Feb. 17, 1880. [Albany, 1880.] O. pp. 55.

—— [Report on the investigation of the elevated railroads.] n.t.p. [N.Y., 1880.] O. pp. 335.
In vol. "Railroad investigation 1879. Miscellaneous."

—— Testimony of George R. Blanchard; Oct. 17th to 25th, 1879. N. Y., 1880. O. pp. (9) + 692. 1 *fold. table.*

New York (*State*) — *Chamber of Commerce.* Report of the committee on rail-road transportation, as to freight discriminations and the effect upon the commerce of the city. Adopted Feb. 28, 1878. N. Y., 1878. O. pp. 21.
This and the two next following in vol. "New York. Railway rates. Pamphlets."

—— Report of the special committee on railroad transportation, as to the results of the recent legislative investigation of rail-road management in this state. Adopted by the Chamber, Feb. 5, 1880. N. Y., 1880. O. pp. 24.

—— Report of the special committee on railroad transportation, on the reply made by Leland Stanford, to the questions on the railroad problem propounded by the committee. N.Y., 1881. O. pp. 34. P. 2.

Newcomb, H. T. Reasonable railway rates. Philadelphia, [189–] O. pp. 26. P. 95.
Cover title. *Publications of the American Academy of Political and Social Science.* No. 132. pp. 335-360.

Nimmo, J. Competition in transportation, with special reference to competition between the Mississippi river and the trunk railroads extending from St. Louis to the Atlantic seaboard [a statement in regard to the influence of commercial forces and of water lines towards regulating rail rates.] Washington, 1881. O. pp. (3) + 7–38.
"A part of the annual report on the internal commerce of the United States."

—— The impracticability of governmental rate-making. n.t.p. [Chicago, 1891.] O. pp. 14.
"From the *Chicago tribune* of Nov. 23, 1891."

Norris, J. "Anti-discrimination"; remarks at Harrisburg, April 9, 1885, in advocacy of bill enforcing provisions of State constitution. n.p., n.d. O. pp. (2) + 84.

—— Argument on three bills relating to railroad discrimination, before committees on judiciary of Senate and House of Representatives, Harrisburg, March 2, 1887. Philadelphia, 1887. O. pp. 68.

Patterson, C. W. The railway problem. N. Y., 1884. O. pp. (14). P. 3.
Extracted from the *Princeton review*, Jan., 1884. pp. 36–49.

Porter, H. Railway rates. N. Y., 1891. O. pp. (10). P. 51.
Extracted from the *North American review.* vol. 153, Dec., 1891. pp. 718–727.

Pratt, G. C. Railroad rates and how they are affected by water ways. Columbia, Mo., 1885. O. pp. 12. P. 51.

Railroad fares in California; [extracts compiled from California newspapers 1867–68.] n.t.p. [San Francisco, 1868?] O. pp. 74.
In vol. "Railway rates in California. Pamphlets. 2."

Rice, I. L. A remedy for railway abuses. N. Y., 1882. O. pp. (15). P. 97.
Extracted from the *North American review*, vol. 134, Feb., 1882. pp. 134-148.

Rutter, J. H. Comments on Assembly bill no. 22, [to regulate the transportation of freight by railroad corporations] before the committee on railroads of the Assembly of the State of New York, March 10, 1880. [N.Y., 1880.] O. pp. 22.
Lettered "New York. Railway rates. Pamphlets."

St. Louis — *Merchants' Exchange.* Report of the Transportation Bureau, submitted to the executive committee, April 12, 1876. St. Louis, 1876. O. pp. 95. P. 1.

Sanderson, S. M. An argument against the power of the legislature of California to regulate fares and freights on the Central Pacific railroad. Sacramento, 1872. O. pp. 55.
This and the one next following in vol. "Railway rates in California. Pamphlets."

San Francisco—*Chamber of Commerce.* Extracts from report of the committee appointed Nov. 11, 1873, to prepare bills for legislative action on the subject of fares and freights. San Francisco, 1874. O. pp. (2) + 5–30.

Seligman, E. R. A. Railway tariffs and the Interstate commerce law. Boston, N. Y. and Chicago, 1887. O. pp. (4) + 87.
"Reprinted from *Political science quarterly*, vol. 2, nos. 2 and 3."

Sterne, S. Closing argument on behalf of the Chamber of commerce and Board of trade and transportation of New York, Dec. 2d and 3d, 1879, before the special Assembly committee on railroads appointed under a resolution of the Assembly to investigate alleged abuses in the management of railroads. N. Y., 1880. O. pp. viii + 156.
In vol. "New York railway pamphlets."

Taylor, B. B. Legislation on railway freight charges. San Francisco, 1874. O. pp. (10).
In vol. "Railway rates in California. Pamphlets."
Extracted from the *Overland monthly*, vol. 13, Aug., 1874. pp. 154-163.

Thurman, A. G., Washburne, E. B. *and* **Cooley, T. M.** Report of Messrs. Thurman, Washburne, and Cooley, constituting an advisory commission on differential rates by railroads between the west and the seaboard. Presented to Parliament by command of Her Majesty. n.t.p. [Lond., 1882.] F. pp. 19.
Report dated N. Y., July 20, 1882.

United States — *Senate.* Wholesale prices, wages, and transportation: report of changes in railway transportation rates on freight traffic throughout the United States, 1852 to 1893; prepared by C. C. McCain for the Senate committee on finance. Washington, 1893. O. pp. (8) + 401-658.

Vanderbilt, W. H. *and* **Jewett, H. J.** Joint letter to the special committee on railroads of the Assembly of the State of New York. N. Y., 1879. O. pp. 61. P. 2.

Vining, E. P. The necessity for a classification of freight, and the principles upon which it is based. Chicago, 1881. O. pp. 10. P. 77.
"Reprinted from the *Railway review*, Chicago."

Walker, A. F. Unregulated competition self-destructive. N. Y., 1891. O. pp. (14). P. 51.
Extracted from the *Forum*, vol. 12, Dec., 1891. pp. 505-518.

Wolcott, S. P. Argument before the Senate of Ohio in opposition to the Brigham bill, for the regulation of transportation rates by railways. Columbus, Ohio, 1882. O. pp. 24. P. 3.

Worcester, E. D. The railroad question; remarks before the Select committee of the Senate of the United States on transportation rates to the seaboard. Albany, 1879. O. pp. (2) + 5–71 + (1). P. 2.
Addendum dated Jan., 1880.

VIII. TAXATION.

Adams, C. F. *jr.*, **Williams, W. B.** *and* **Oberly, J. H.** Taxation of railroads and railroad securities: a committee appointed at a convention of State railroad commissioners, to examine into and report the methods of taxation as respects railroads and railroad securities now in use in the various states of the Union, as well as in foreign countries. N. Y., 1880. O. pp. 49.

Corbin, C. L. Taxation of railroads in New Jersey; a lecture before the Kent Club of Jersey City, June 11, 1883. [Jersey City, 1883.] O. pp. (2) + 5-28. P. 91.

Cripps, H. W. How to rate a railway in accordance with the decisions of the Court of Queen's Bench. Lond., 1853. S. pp. vi + 85.
In vol. "Rating of railways."

Great Britain—*House of Commons.* Report from the select committee on internal communication taxation; with the minutes of evidence. Ordered printed, 30 June, 1837. Lond., 1837. F. pp. vi + 45.
In vol. "Great Britain. Railway reports. Misc. 1836-38."

—— Report from the select committee on railway passenger duty; with the proceedings of the committee, minutes of evidence and appendix. Ordered printed. 23 June, 1876. [Lond., 1876.] F. pp. xxiv + 369.
In vol. "Great Britain. Railway carriers act, 1839."

—— *House of Lords.* Report from the select committee appointed to consider the bill intituled: "An act to repeal such portions of all acts as impose prohibitory tolls on steam carriages, and to substitute other tolls on an equitable footing with horse carriages;" with the minutes of evidence. Ordered printed, 19th July, 1836. [Lond., 1836.] F. pp. iv + 99.
In vol. "Great Britain. Railway reports. Misc. 1836-38."

—— — *Parliament*—5 & 6 *Vict.* An act to repeal the duties payable on stage carriages and on passengers conveyed upon railways. [Royal assent,] 5th August 1842. n.t.p. [Lond., 1842.] F. pp. 877-895.

—— — 46 & 47 *Vict.* An act to amend the law relating to railway passenger duty. [Royal

assent,] 20th August, 1883. n.t.p. [Lond., 1883.] Q. pp. 6 + (1).

Laing, S. Railway taxation. Westminster, 1849. O. pp. 23. P. 41.

Lang, G. H. Reasons for the repeal of the railway passenger tax. Lond., 1851. O. pp. 47. P. 42.
"With G. H. L.'s compts."

"Mileage duties": case of the stage carriage proprietors. [Lond.,] 1864. O. pp. 32. 1 *fold. map.* P. 43.

New Jersey — *Court of Errors and Appeals.* The railroad tax law: opinions of the court; delivered May 29, 1886. [Camden? 1886.] O. pp. 32. P. 91.

—— — *Legislature.* Acts providing for the taxation of railroad and canal companies. Camden, 1884. O. pp. 22. P. 91.

—— Report of the special joint committee on taxation of the property of railroad and other corporations. Camden, 1884. O. pp. 47. P. 91.

Railway taxation considered in a letter to Lord Althorp, [by "a coach proprietor."] Lond., 1833. O. pp. (2) + 15. P. 39.

Report of the public meeting of railway shareholders, held in Liverpool, 16th of April, 1849, to consider the propriety of petitioning Parliament to amend the law in respect to the rating of railways. Liverpool, 1849. O. pp. 21. P. 41.

Ryde, E. A handy book in a series of letters: letter VIII: rating of railways. Lond., 1868. D. pp. (2) + 5–36. P. 44.

Ten Eyck, H. J. Recent experiments in state taxation. N.Y., 1886. O. pp. (6). P. 3.
Extracted from the *Popular science monthly*, vol. 28. Feb., 1886. pp. 460-466.

Wisconsin—*Railroad Commission.* Taxation of railroads and railroad securities; report of a committee to a convention of railroad commissioners, held at Saratoga Springs, June 10, 1879, together with a summary of laws in relation to railroad taxation in force in the various states of the Union as well as foreign countries. Madison, Wis., 1880. O. pp. 52. P. 91.

Law.

1. CONTINENTAL EUROPE.

Asser, C. D. *jr.* Internationaal goederenvervoer langs spoorwegen: de Bernsche Conventie van 1886. Academisch proefschrift. 's-Gravenhage, 1887. Q. pp. (7) + 489.

Betriebs-Reglement (Das) für die österreichischen Eisenbahnen vom 10. December, 1892, und das Internationale Uebereinkommen über den Eisenbahnfrachtverkehr vom 14. October, 1890. Prag, 1893. D. pp. 225. 3 *fold. tables.*

Buschman, M. *Freiherr* **von.** Das neue Eisenbahn-Betriebs-Reglement in Gegenuberstellung zum Internationalen Uebereinkommen uber den Eisenbahnfrachtverkehr; von Max Freiherrn von Buschman, unter Mitwirkung des Carl Ritter Rumler von Richenwehr. 2e Ausgabe, mit Supplement. Wien, 1894. O. pp. xvi + 310 + 31. 2 *fold tables.*

Eger, G. Eisenbahnrechtliche Entscheidungen: deutscher [und oesterreichischer] Gerichte. 1–10 Band. Berlin, 1885–94. 10 vols. bd. in 5. O.
Bd. 1-4. Deutscher Gerichte.—5-9. Deutscher und oesterreichischer Gerichte.—10. Deutscher, oesterreichischer und ungarischer Gerichte, sowie des Central-Amtes für den internationalen Eisenbahntransport.

—— Das Internationale Uebereinkommen über den Eisenbahn-Frachtverkehr, nebst Ausführungs-Bestimmungen, Anlagen und Formularen in Verbindungen mit dem Betriebs-Reglement des Vereins Deutscher Eisenbahn-Verwaltungen. Text-Ausgabe, mit Anmerkungen. Breslau, 1893. O. pp. xvi + 206. 1 *fold. table.*

—— Das Internationale Uebereinkommen über den Eisenbahnfrachtverkehr vom 14. Oktober 1890: erläutert mit eingehender Berücksichtigung der Materialien, insbesondere des schweizerischen und deutschen Entwurfs nebst Motiven, sowie der Protokolle der internationalen Konferenzen zu Bern. Berlin, 1894. O. pp. xli + 804. 1 *fold. table.*

Geller, L. Das Eisenbahn-Betriebsreglement vom 10. December 1892; nebst dem Internationalen Uebereinkommen über den Eisenbahn-Frachtverkehr vom 10. Oktober 1890 und den darauf bezüglichen Vorschriften. Wien, 1893. D. pp. 92.
"Supplement zu Geller's Justizgesetze. Band II. Handelsrechtgesetze. 4. Auflage."

Gerstner, T. Internationales Uebereinkommen über den Eisenbahn-Frachtverkehr. [*French title:*] Convention internationale sur le transport de marchandises par chemins de fer. Text-Ausgabe. Berlin, 1892. O. pp. viii + 126. 2 *fold. tables.*

—— Internationales Eisenbahn-Frachtrecht: das zu Bern am 14. Oktober 1890 zwischen Deutschland, Oesterreich - Ungarn, Italien, Frankreich, Russland, Belgien, den Niederlanden, Luxemburg und der Schweiz abgeschlossene Internationale Uebereinkommen uber den Eisenbahn - Frachtverkehr in systematischer Darstellung erläutert. Berlin, 1893. O. pp. xviii + 618. 2 *fold. tables.*

Internationale Uebereinkommen (Das) über den Eisenbahn-Frachtverkehr und die Transportversicherungs - Gesellschaften. Wien, 1893. 9 columns. F.
Extracted from *Der National-Oekonom.* Jahrg. 6. 20 Jänner, 1. Februar, 1893.

Internationales Uebereinkommen über den Eisenbahn-Frachtverkehr, vom 14. Oktober 1890. Gultig vom 1 Januar 1893. Berlin, 1893. D. pp. v + (1) + 126. 1 *fold. table.*

Internationales Uebereinkommen über den Eisenbahnfrachtverkehr, vom 14. Oktober 1890; nebst der besonderen Vereinbarung zwischen Deutschland und Oesterreich-Ungarn, vom 15. November 1892. Berlin, 1893. D. pp. 100.

Meili, F. Internationale Eisenbahnverträge und speciell die Berner Convention über das internationale Eisenbahn-Frachtrecht. Hamburg, 1887. O. pp. (2) + vii–xii + 141. 2 *fold. tables.*

Rosenthal, E. Internationales Eisenbahn-Frachtrecht auf Grund des Internationalen Uebereinkommens über den Eisenbahn-Frachtverkehr vom 14. Oktober, 1890 und der Konferenzbeschlüsse vom Juni und September, 1893. Jena, 1894. Q. pp. xxii + 398. 1 *fold. table.*
"Litteratur" pp. xvii–xxii.

a. Austria.

Austria. Das allgemeine Handelsgesetzbuch: die Vorschriften uber Erwerbs- und Wirthschaftsgenossenschaften, Versicherungsanstalten, Wäg- und Messanstalten, Lagerhäuser und das neue Eisenbahn-Betriebs-Reglement. 15e Auflage. Wien, 1894. S. pp. ix + 522. 3 *fold. tables.* (Manz'sche Taschen-Ausgabe der österreichischen Gesetze.)

—— Dienst-Reglement für das kaiserliche und königliche Heer. 3er Theil: Eisenbahn- und Telegraphen-Regiment. Wien, 1893. D. pp. vi + 96.

—— Grundzüge der Vorschriften für den Betrieb auf Localbahnen: Secundärbahnen, Vicinalbahnen. Wien, 1891. O. pp. 49 + (1). P. 20.

—— Kaiserliche Verordnung vom 16. November 1851, mit welcher eine Eisenbahn-Betriebs-Ordnung für alle Kronländer erlassen wird. Wien, 1890. D. pp. (2) + iv + 76. (Handausgabe der österreichischen Gesetze und Verordnungen. 54. Heft.) P. 20.

—— Die österreichischen Eisenbahngesetze und die sonstigen auf das Eisenbahnwesen Bezug habenden Vorschriften. 3e, vollständig umgearbeitete und erganzte Auflage. Wien, 1888. S. pp. (9) + 526. (Taschenausgabe der österreichischen Gesetze, 17.)

Bezecny, A. Die Rechte der ausschliesslich privilegirten Kaiser Ferdinands-Nordbahn: eine eisenbahnrechtliche Studie. Wien, 1887. O. pp. viii + 174.

Bonnott, R. S. *Edler* von *and* **Weeber, A.** Die Rechtsurkunden der österreichischen Eisenbahnen. Bd. 1. Wien, Pest, Leipzig, 1892. O. pp. xii + 5–962.

Buschman, M. *Freiherr* **von.** Die Vorschriften betreffend den Transport explosiver und denselben ähnlicher Gegenstände auf den österreichischen Eisenbahnen. Wien, 1893. D. pp. xii + 99. (Handausgabe der österreichischen Gesetze und Verordnungen. 104. Heft.)

Epstein, M. Sammlung von eisenbahnrechtlichen Entscheidungen des k. k. Obersten Gerichtshofes, vom Jahre 1844–1878; mit Anhang: Entscheidungen des Wiener Eisenbahn-Schiedsgerichtes. 2e, revidirte Auflage. Wien, 1884. O. pp. vii + 600 + (2).

—— *Same.* Neue Folge; vom Jahre 1879–1883. Wien, 1884. O. pp. viii + 232.

Haberer, T. Das österreichische Eisenbahnrecht. Wien, Pest, Leipzig, 1885. O. pp. xiv + (1) + 344 + 246. (Bibliothek des Eisenbahnwissens. VI.)

Michel, A. T. Oesterreichs Eisenbahnrecht. Wien, 1860. O. pp. (2) + v–xii + 247.

Rechtsverhältniss (Das) zwischen Staat und Commune in der Wiener Tramway-Frage; von einem Juristen. Wien, 1885. O. pp. (2) + 5–78.

Reinitz, M. Das Rechtsverhältniss zwischen Staat und Eisenbahnen in Oesterreich. Wien, 1884. O. pp. 103.

Röll, V. Eisenbahnrechtliche Entscheidungen der österreichischen und ungarischen Gerichte. Jahrgang 2–6; 1888–92. Wien, Pest, Leipzig, 1889–93. 5 vols. O.

—— Oesterreichische Eisenbahngesetze; Sammlung der auf das Eisenbahnwesen Bezug habenden Gesetze, Verordnungen und Judicate; unter Mitwirkung des J. Messerklinger herausgegeben von Victor Röll. Wien, 1885. 2 vols. O. pp. xi + (1) + 800. 74 *figs.*, 1 *fold. table;* pp. (2) + 803–1576. 2 *fold. tables.*

Weil, J. Die Geltendmachung der Coupons der Staatsbahnprioritaten im Auslande und das österreichische Curatorengesetz; Beitrag zur Theorie des internationalen Privatrechtes. Wien, 1893. O. pp. v + (1) + 9–38.

b. France.

Barandiaran, A. de. Du contrat de transport: résumé de la législation et de la jurisprudence. Paris, 1893. O. pp. (2) + 5–99.
"Extrait de la *France judiciaire.*"

Barckhausen, H. Du régime légal des tramways. Paris, 1877. O. pp. 12. P. 34.
"Extrait de la *Revue critique de législation et de jurisprudence,* mai, 1877."
Cover title.

Beuf, L. Étude sur les chemins de fer d'intérêt local (loi du 11 juin 1880). Paris, 1885. O. pp. (2) + 234 + (1).

Carpentier, A. *and* **Maury, G.** Traité pratique des chemins de fer. Paris, 1894. 3 vols. O. pp. (6) + lxiii + 627; (4) + 543; (4) + 803.
"Extrait du *Répertoire général alphabétique du droit français.*"

Chaix, N. Répertoire de la législation des chemins de fer, indiquant les dispositions législatives et réglementaires insérées dans le Bulletin des lois et reportant par des annotations aux lois antérieures; rédigé sur les documents fournis par le Bureau de statistique de la Direction générale des chemins de fer, et publié par Napoléon Chaix. Paris, 1855. D. pp. (3) + 7–238.

Cotelle, A. Voyageurs et bagages: tracas et soucis des voyages en voitures, chemins de fer, omnibus, tramways et bateaux. Paris, 1891. D. pp. (4) + 7–190.

Fabre, J. Manuel à l'usage des candidats aux fonctions de commissaire de police ou d'inspecteur spécial de la police des chemins de fer. Paris, 1889. O. pp. (4) + vii–xx + 423 + (1).

Féolde, G. Des transports par chemins de fer: voyageurs et marchandises. Paris, 1890. O. pp. (3) + 463.

Feraud-Giraud, L. J. D. Servitudes de voirie: études sur la législation et la jurisprudence concernant les charges établies dans un intérêt de voirie sur les propriétés privées bordant les rues et places, routes et chemins, voies de fer, cours d'eau navigables ou flottables. Paris, 1850–53. 3 vols. O. pp. xiii + (1) + 552; (3) + 578; (3) + 247.
Contents:—**1, 2.** Voies de terre.—**3.** Législation des chemins de fer par rapport aux propriétés riveraines.

France—*Ministère des Travaux Publics.* Loi et règlements relatifs aux chemins de fer d'intérêt local et aux tramways. Paris, 1881 [-82.] O. pp. 131 + 7.

Gand, N. Traité de la police et de la voirie des chemins de fer et de la législation des locomotives qui les desservent; avec un formulaire des actes prescrits a tous les fonctionnaires et agents chargés de la construction, de l'exploitation, de la surveillance et de la répression des contraventions en matière de chemins de fer. Paris, 1864. O. pp. xi + 409.

Gisclard, A. Code des chemins de fer d'intérêt local. Paris, 1882. D. pp. (2) + 162.

Goudin, S. La vigie des transports par chemins de fer. Paris, 1885. O. pp. (2) + viii + 89 + (1). P. 23.

Guillaume, A. De la législation des railroutes ou chemins de fer en Angleterre et en France. 1e partie. Paris, 1838. O. pp. (2) + xii + 223 + 191 + (1). 4 *fold. tables.*

Guillaume, E. Les tramways, législation et jurisprudence les concernant. Paris, 1884. O. pp. 55. P. 34.

Lazerges, P. Chemins de fer exécutés par l'état; guide practique des expropriations des terrains, avec la manière de dresser et de présenter les formules et les diverses pièces de la procédure. Paris, [1882.] O. pp. (6) + 3–443.

Palaa, G. Dictionnaire législatif et réglementaire des chemins de fer; résumé des documents officiels en vigueur et les principaux renseignements pratiques sur l'établissements, l'entretien, la police et l'exploitation des voies ferrées. 2e éd., entièrement refondue et complétée. Paris, 1872. O. pp. (5) + 1124.

—— *Same.* 3e éd., entièrement remaniée. Paris, 1887. 2 vols. O. pp. vii + (1) + 823; (4) + 885.

—— *Same.* Supplément général de la 3e édition. Paris, 1894. O. pp. vii + (1) + 312.

Richard, A. Législation des chemins de fer d'intérêt local. Paris, 1875. O. pp. iv + 5–269.

Vigouroux, E. Législation et jurisprudence des chemins de fer et des tramways. Paris, 1886. O. pp. (3) + vi + 434. (Bibliothèque juridique contemporaine, 6.)

c. Germany.

Bröse, G. *and* **Isenbeck, W.** Handbuch für Staats-Eisenbahn-Beamte, enthaltend diejenigen Gesetze, Verordnungen und sonstigen Erlasse, welche für den administrativen Dienst bei den Staats- und unter Staats-Verwaltung stehenden Privat-Eisenbahnen von besonderer Wichtigkeit sind. 4e Auflage. Hannover, 1886. O. pp. (2) + v–xxxii + 766. 2 *fold. tables.*

Burchard, J. L. Das Recht der Spedition. Stuttgart, 1894. O. pp. (2) + v–viii + 536.

Croissant, F. Eigenes Verschulden und Handlungsunfahigkeit: ein Streifzug auf das Gebiet des Haftpflichtgesetzes. Strassburg i. E., 1893. O. pp. (2) + 5–63.

Eger, G. Das deutsche Frachtrecht, mit besonderer Berücksichtigung des Eisenbahnfrachtrechts. 2e, vermehrte Auflage. Berlin, 1888–91. 3 vols. O. pp. xiv + 448; xvi + 742 + (1); xiv + (1) + vi + (1) + 602.

—— Handbuch des preussischen Eisenbahnrechts. Breslau, 1889–94. 2 vols. O. pp. (8) + viii + 572; 576 +.
Bd. 2 in progress.

—— Die Kranken-, Unfall-, Invaliditäts- und Alters-Versicherungsgesetze in Einzelausgaben

erläutert. 2e, vermehrte Auflage. Berlin, 1892–93. 2 vols. bd. in 1. D. pp. xv + (1) + 276; x + (1) + 256.

Contents:—**1.** Krankenversicherungsgesetz in der Fassung vom 10. April 1892 und Gesetz über die eingeschriebenen Hülfskassen vom 1. Juni 1884.—**2.** Invaliditäts- und Alters-Versicherungsgesetz vom 22. Juni 1889, mit dem Abänderungsgesetz vom 8. Juni 1891.

—— Die Nothwendigkeit einer Revision des preussischen Enteignungsgesetzes: Abänderungsvorschläge verbunden mit dem Entwurfe eines neuen Enteignungsgesetzes nebst Motiven. 2e Auflage. Breslau, 1893. O. pp. 60.

—— Das Reichs- Haftpflicht- Gesetz betreffend die Verbindlichkeit zum Schadenersatz für die bei dem Betriebe von Eisenbahnen, Bergwerken, Steinbrüchen, Gräbereien und Fabriken herbeigeführten Tödtungen und Körperverletzungen, vom 7. Juni 1871. Breslau, 1876. O. pp. xxxvi + 532.

Endemann, W. Die Haftpflicht der Eisenbahnen, Bergwerke, u. s. w. fur die bei deren Betriebe herbeigefuhrten Tödtungen und Körperverletzungen: Erläuterungen des Reichsgesetzes vom 7. Juni 1871. 3e Auflage. Berlin, Leipzig, 1885. O. pp. ix + 225.

—— Das Recht der Eisenbahnen, nach den Bestimmungen des Deutschen Reichs und Preussens. Leipzig, 1886. O. pp. xii + 825.

Germany. Gesetz betreffend die Einsetzung von Bezirkseisenbahnräthen und eines Landeseisenbahnrathes für die Staatseisenbahnverwaltung nebst Ausführungsbestimmungen. Berlin, 1885. Q. pp. (2) + 5–29 + (1).

Gleim, W. Das Gesetz über Kleinbahnen und Privatanschlussbahnen vom 28. Juli 1892. 2e, vermehrte Auflage. Berlin, 1895. D. pp. (6) + 176.

—— Das Recht der Eisenbahnen in Preussen. 1. Band: Das Eisenbahnbaurecht. Berlin, 1893. O. pp. xiii + 484.

Hahn, J. Das Krankenversicherungsgesetz vom 15. Juni 1883, 10. April 1892; mit Einleitung und Kommentar. Berlin, 1892. O. pp. (6) + 236.

Kah, K. Das Haftpflichtgesetz betreffend die Verbindlichkeit zum Schadenersatze fur die bei dem Betriebe von Eisenbahnen, Bergwerken, Fabriken, Steinbrüchen und Grabereien herbeigeführten Tödtungen und Körperverletzungen. Mannheim & Strassburg, 1874. O. pp. (2) + 201.

Koch, W. Deutschlands Eisenbahnen; Versuch einer systematischen Darstellung der Rechtsverhältnisse aus der Anlage und dem Betriebe derselben. Marburg, Leipzig, 1860. 3 pts. bd. in 1 vol. O. pp. (2) + v–xvi + (1) + 248; xxxviii + (2) + 508; (1) + 429 + (1). 1 *fold. table.*

Loock, W. Der strafrechtliche Schutz der Eisenbahnen im Deutschen Reiche. Berlin, 1893. O. pp. (3) + 104. (Abhandlungen des kriminalistischen Seminars; herausgegeben von F. von Liszt. 3. Bd. 2. Heft.)

Mentor, I. Handbuch für Eisenbahn-Reisende; Eisenbahn-Bädeker für 1886; vollständige Zusammenstellung der bestehenden Bestimmungen über die Rechte und Pflichten der Reisenden auf den Königl. Preuss. Staats-Eisenbahnen. 2e Auflage. Elberfeld, [1886.] S. pp. xiv + 55. r. 81.

Mohl, M. Bemerkungen zu dem vorläufigen Entwurfe eines Reichs-Eisenbahn- Gesetzes vom April 1875. Stuttgart, 1875. O. pp. iv + 5–24.

—— Ueber den Entwurf eines Reichs- Eisenbahn- Gesetzes und dessen Unzulässigkeit. Stuttgart, 1874. O. pp. (3) + 114.

Penet, J. L'état et les voies ferrées d'intérêt local en Allemagne; étude sur la loi prussienne du 28 juillet 1892, avec traduction de cette loi. Paris, 1893. Q. pp. (2) + 5–77 + (1).

"Extrait du *Bulletin de la Société de législation comparée.*"

Schroetter, J. A. Das preussische Eisenbahnrecht in seiner heutigen Gestalt. Berlin, 1883. O. pp. vi + (2) + 275. 1 *fold. table.*

Seligsohn, A. Gesetz zum Schutz der Waarenbezeichnungen vom 12. Mai 1894 nebst Ausfuhrungsbestimmungen. Berlin, 1894. O. pp. (3) + 256.

Stenglein, M. Die Post-, Bahn- und Telegraphengesetzgebung des deutschen Reiches. Berlin, 1893. Q. pp. 65.

Wie reist man selbständig und geschützt gegen Anfälle aller Art? Rathgeber auf der Eisenbahn. Gaildorf, 1883. O. pp. 24. r. 81.

d. Italy.

Benvenuti, G. B. I tramways: note giuridiche. Firenze, 1884. O. pp. viii + 403.

Cogliolo, P. Codice dei trasporti; raccolta delle leggi, regolamenti, ordini circa i trasporti ferroviari, tariffe generali e speciali con la giurisprudenza commerciale sui trasporti di merci e di persone; precede una completa trattazione della responsabilità delle società ferroviarie. Firenze, 1892. S. pp. (3) + 788.

—— Codice del ferroviere per le reti Mediterranea, Adriatica, Sicula: legge 27 aprile, 1885, su le convenzioni ferroviarie, capitolati, norme sul personale, con raccolta della giurisprudenza italiana ed una completa trattazione della responsabilità delle società ferroviarie verso gli agenti ferroviari e verso i viaggiatori per violazione di contratto, disastri. Firenze, 1892. S. pp. (6) + 596

Fassa C. Responsabilità delle compagnie ferroviarie relativamente alle persone. Torino, 1888. O. pp. (5) + 158.

Gasca, C. L. Il codice ferroviario. Milano, Napoli, Pisa, 1887–92. 4 vols. O. pp. xii + 856; viii + 960; (4) + 542; viii + 938.

Contents:—**1.** Diritto pubblico.—**2.** Diritto privato.—**3.** Diritto internazionale.—**4.** Una raccolta completa di leggi, regolamenti e R. decreti relativi alla costruzione e l'esercizio delle strade ferrate.

Italy. Codice delle strade ferrate: contenente leggi, convenzioni, capitolati, ordinanze e regolamenti ferroviarii, nonchè legge e regolamenti relativi alle linee di complemento, con l'aggiunti delle altre disposizioni che vi hanno attinenza. Napoli, 1891. S. pp. 473. 2 *fold. tables.*

Manara, U. La responsabilità delle amministrazioni ferroviarie regolata dal codice di commercio del 1882. Roma, 1884. O. pp. (4) + 5–183.

Marchesini, G. B. Del contratto di trasporto per strada ferrata secondo il nuovo codice di commercio e le nuove tariffe ferroviarie. Torino, Roma, Napoli, 1888. 2 vols. O. pp. (5) + xix + (1) + 23–282; pp. (3) + 486.

Rabbeno, A. I trasporti ferroviari delle persone e delle merci, ed il riscatto governativo in relazione col progetto preliminare del codice di commercio. Reggio nell' Emilia, 1876. D. pp. (2) + 5–89. P. 23.

Tedesco, F. Le tranvie; note di giurisprudenza coordinate e spiegate principalmente con atti parlamentari e governativi. Firenze, 1883. O. pp. iv + 239.

"Estratto dal Codice dei lavori pubblici."

e. Switzerland.

Hafner, H. Ueber den Begriff der höheren Gewalt im deutschen Transportrecht. Zürich, 1886. O. pp. (2) + 71.

Hürlimann, H. Die eidgenössische Eisenbahngesetzgebung mit Angabe der Quellen für die Kenntniss der darauf bezüglichen Praxis der Bundesbehörden. Zürich, 1887. D. pp. vii + (1) + 296 + 60. (Schweizerische Rechtsbücher.)

Meili, F. Das Pfand- und Concours- Recht der Eisenbahnen. Leipzig, 1879. O. pp. vii + 134.

Rambert, M. Du contrat d'enterprise en matière de travaux de chemins de fer. Lausanne, 1890. O. pp. (5) + 173.

Schneeli, M. Die rechtliche Natur des Eisenbahnfahrscheins. Inaugural - Dissertation. Zürich, 1890. O. pp. (2) + 118 + (1).

Seiler, O. Ueber die rechtliche Natur der Eisenbahn-Konzessionen nach schweizerischem Recht. Inaugural-Dissertation. Zürich, 1888. O. pp. (3) + 7–144 + (1).

II. ENGLISH AND AMERICAN.

American (The) and English railroad cases; a collection of all the railroad cases in the courts of last resort in America and England. Vol. 1–60. Northport, N. Y., [1881–95.] 60 vols. O.

—— *Same.* Index digest of vol. 1–10; by Lawrence Lewis, jr. Northport, N. Y., 1883. O. pp. iv + 393.

—— *Same.* Digest of the cases reported, and index to the notes thereto, with table of cases reported, vols. 36 to 45 inclusive; also an index to the principal notes which have appeared in vols. 1 to 45; by William M. McKinney. Northport, N. Y., 1891. O. pp. (2) + 372.

American (The) railway reports; a collection of all reported decisions relating to railways. New York, 1873–81. 21 vols. O.

Anderson, W. C. The law of railway liens; constitutional and statutory provisions of the states and territories, concerning claims against railroad and other corporations, for materials, labor, supplies, etc., with a digest of the decisions thereon. Pittsburgh, 1891. O. pp. 312.

Beach, C. F. *jr.* Annual digest of railway decisions and statutes, American and English; Jan. 1, 1889, to Jan. 1, 1890; with notes upon striking or novel decisions. Jersey City, 1890. O. pp. xxxiv + 289.

—— The modern law of railways as determined by the courts and statutes of England and the United States. San Francisco, 1890. 2 vols. S. pp. xlv + (1) + 738; pp. (3) + 745–1544.

Bly, M. T. Legal hints for travelers; a compilation of judicial decisions pertaining to the rights of travelers upon passenger transportation lines. Boston, 1887. T. pp. 62. P. 81.

"Prepared for the A. B. C. pathfinder railway guide."

Bonney, C. C. Rules of law for the carriage and delivery of persons and property by railway. Chicago, 1864. O. pp. (2) + xi + 13–267.

Browne, J. H. B. *and* **Theobald, H. S.** The law of railway companies; a collection of the acts and orders relating to railway companies in England and Ireland, with notes of all the cases decided thereon, and appendix of bye-laws, and standing orders of the House of Commons. 2d ed. Lond., 1888. O. pp. lv + 916.

Butterworth, A. K. *and* **Ellis, C. E.** A treatise on the law relating to rates and traffic on railways and canals, with special reference to the railway and canal traffic act, 1888, and the prac-

tice of the Railway and canal commission; with an appendix of statutes, rules, etc. 2d ed. Lond., 1889. O. pp. xxxii + 264 + 165.

California — *Legislature.* Laws relative to railroads and railroad corporations, in force Jan. 1, 1879. Sacramento, 1879. O. pp. iv + (2) + 278.

Cases relating to railways and canals, argued and adjudged in the courts of law and equity, 1835 to 1852. Boston, 1854. 6 vols. O.
"From the London edition."

Clifford, F. The steamboat powers of railway companies. Lond., [1865.] O. pp. 91. P. 43.

Colton, Ellen M. *vs.* **Leland Stanford** *et al.* Argument of Alfred A. Cohen, [of counsel for defendants.] n.t.p. Q. pp. v + 572.
Superior Court, Sonoma county, California. Action to rescind a contract with the defendants made by Ellen M. Colton in her individual capacity and as the executrix of the estate of her late husband, David D. Colton, the contract being one of settlement and compromise growing out of the business relations of plaintiff and of her husband with the principal stockholders of the Central Pacific and Southern Pacific railroads.

—— Argument of J. P. Hoge, of counsel for defendants. San Francisco, 1885. O. pp. 270.
Cover title.

—— Argument of Hall McAllister, counsel for defendants. Vol. 1: argument of first nine days. n.t.p. [San Francisco, 1885.] Q. pp. iii + 383.

—— Argument of L. D. McKisick, of counsel for defendants. San Francisco, 1885. O. pp. 871.
Cover title.

—— Argument of George R. B. Hayes, of counsel for plaintiff; reported by C. F. Whitton and Samuel Osbourne. San Francisco, [1885.] O. pp. 623.
Cover title.

—— Argument of John A. Stanly, of counsel for plaintiff. San Francisco, [1884.] O. pp. 482.
Cover title.

—— Argument of W. T. Wallace, of counsel for plaintiff. San Francisco, [1884.] O. pp. 221.

—— Deposition of Edward W. Hopkins, on behalf of plaintiff. [San Francisco, 1883.] Q. pp. 29.
Cover title.

—— Deposition of Edwin D. Morgan. Jan. 24, 1884. San Francisco, 1884. O. pp. 22.
Cover title.

—— Deposition of S. W. Sanderson. Filed, Oct. 1883. [San Francisco,] 1883. Q. pp. 35.
Cover title.

—— Deposition of Arthur Scrivener. Jan. 29, 1884. San Francisco, 1884. Q. pp. 26.
Cover title.

—— Deposition of Leland Stanford, on behalf of defendants. Filed, Sept., 1883. San Francisco, 1883. Q. pp. 133.
Cover title.

—— Depositions of Lloyd Tevis and Ellen M. Colton. San Francisco, [1883.] O. pp. 46 + 24.
Cover title.

—— Findings. SanFrancisco,1886. Q. pp.123.
Cover title.

—— Opinion of the Supreme Court of California, in the Colton case. June 4, 5, 6, 1889. San Francisco, 1889. O. pp. 46.

—- [Testimony. Nov. 13, 1883–Aug. 1, 1884. San Francisco, 1883–84.] 19 vols. O. pp. 10,245.
Paged consecutively.

Darlington, H. R. The railway rates and the carriage of merchandise by railway; including the provisional orders of the Board of Trade, as sanctioned by Parliament, containing the classification of traffic and schedule of maximum rates and charges applicable to the railways of Great Britain and Ireland. Lond., 1893. O. pp. xxxvi + 581.
"In compiling this book the object of the author has been to set forth in a convenient and accessible form the law relating to the carriage of goods by railway."—Preface.

Davis, G. *and* **Browne, G. M.,** *jr.* Car trusts in the United States: a brief statement of the law of contracts of conditional sale of rolling stock to railroads. N. Y., 1894. O. pp. (3) + 49.

Ferguson, J. Railway rights and duties: a summary of the law relating to a railway in operation. Edinburgh, 1889. O. pp. (2) + v-xx + (1) + 402.

—— *Same, supplement:* Five years' railway cases: 1889-93; with acts of Parliament and of Sederunt and the Railway and canal commission rules. Edinburgh, 1894. O. pp. viii + 124.

Godefroi, H. *and* **Shortt, J.** The law of railway companies. Lond., 1869. O. pp. (2) + v-xli + 552 + cccIxiv.

Great Britain—*House of Commons.* Report from the select committee on private bill legislation; with the proceedings of the committee, minutes of evidence. Ordered printed, 24 June, 1863. [Lond., 1863.] F. pp. xl + 453.

—— Second report from the select committee on railway acts enactments; with the minutes of evidence. Ordered printed, 25 August, 1846. [Lond., 1846.] F. pp. xxxii + 598 + 63. 2 *fold. tables.*

—— First-fifth report from the select committee on railway and canal bills. Ordered printed, 16 Dec. 1852–8 July, 1853. [Lond., 1852–53.] 5 pts. bd. in 1 vol. F.

—— Report from the select committee on railway and canal legislation; with the proceedings of the committee, minutes of evidence. Ordered printed, 12th July, 1858. [Lond., 1858.] F. pp. viii + 152.

—— Report from the select committtee on railway companies' powers; with the proceedings of the committee. Ordered printed, 18 March, 1864. [Lond., 1864.] F. pp. xi + xii + 133.

—— First and second reports of the select committee (1846) on railway acts enactments; with the minutes of evidence. Ordered printed, 15th February, 1848. [Lond., 1848.] 2 pts. bd. in 1 vol. F. pp. (1) + 4; xxxii + 661. 1 *fold. plate*, 2 *fold. tables.*

—— Reports of select committees upon questions connected with general railway legislation. Lond., 1844. O. pp. iv + 138.

—— — *Parliament.* A collection of the public general acts for the regulation of railways; including the companies, lands and railways clauses consolidation acts: 1838–1846. Westminster, 1846. D. pp. (3) + 245.

—— A collection of the public general acts relating to railways in Scotland; including the companies, lands, and railways clauses consolidation (Scotland) acts: 1830–1861. 5th ed. Westminster, 1862. nar. D. pp. viii + 292 + 3.

—— Supplement to the thirteenth edition of the general railway acts; containing the enactments affecting railways in England and Ireland; passed in sessions 1875 to 1883; edited by James Bigg. Westminster, 1883. nar. D. pp. (3) + 611–721.

—— — *Parliament*—7 & 8 *Vict.* An act to attach certain conditions to the construction of future railways authorized or to be authorized by any act of Parliament. [Royal assent,] 9th August, 1844. n.t.p. [Lond., 1882.] F. pp. 801–812.

—— — 8 *Vict.* An act for consolidating in one act certain provisions usually inserted in acts authorizing the making of railways. [Royal assent,] 8th May, 1845. n.t.p. [Lond., 1871.] F. pp. 353–400.

—— — 8 & 9 *Vict.* An act to restrict the powers of selling or leasing railways, contained in certain acts of Parliament relating to such railways. [Royal assent,] 4th August, 1845. n.t.p. [Lond., 1845.] F. pp. 1185–1186.

—— — 9 *Vict.* An act to amend an act of the second year of Her present Majesty for providing for the custody of certain monies paid, in pursuance of the standing orders of either House of Parliament, by subscribers to works or undertakings to be effected under the authority of Parliament. [Royal assent,] 18th June, 1846. n.t.p. [Lond., 1846.] F. pp. 253–256.

—— — 13 & 14 *Vict.* An act to facilitate the abandonment of railways, and the dissolution of railway companies, in certain cases. [Royal assent,] 14th August, 1850. n.t.p. [Lond., 1850.] F. pp. 961–976.

—— — 26 & 27 *Vict.* An act for consolidating in one act certain provisions frequently inserted in acts relating to railways. [Royal assent,] 28th July, 1863. n.t.p. [Lond., 1873.] F. pp. 841–858.

—— An act for consolidating in one act certain provisions frequently inserted in acts relating to the constitution and management of companies incorporated for carrying on undertakings of a public nature. [Royal assent,] 28 July, 1863. n.t.p. [Lond., 1863.] F. pp. 1181–1191.

—— — 27 & 28 *Vict.* An act to facilitate in certain cases the obtaining of further powers by railway companies. [Royal assent,] 29th July, 1864. n.t.p. [Lond., 1864.] F. pp. 1149–1160.
"Railway companies' powers act, 1864."

—— An act to facilitate in certain cases the obtaining of powers for the construction of railways. [Royal assent,] 29th July, 1864. n.t.p. [Lond., 1865.] F. pp. 1161–1187.
"Railways construction facilities act, 1864."

—— — 30 & 31 *Vict.* An act to amend the law relating to railway companies in Scotland. [Royal assent,] 20th August, 1867. n.t.p. [Lond., 1867.] F. pp. 1445–1455.

—— An act to amend the law relating to railway companies. [Royal assent,] 20 August, 1867. n.t.p. [Lond., 1867.] F. pp. 1457–1467.

—— — 31 & 32 *Vict.* An act to further amend the law relating to railway companies. [Royal assent,] 31st July, 1868. n.t.p. [Lond., 1868.] F. p. (1).

—— An act to amend the law relating to railways. [Royal assent,] 31st July, 1868. n.t.p. [Lond., 1888.] F. pp. 1157–1180.

—— — 32 *Vict.* An act to repeal so much of the Regulation of railways act, 1868, as relates to the approval, by meetings of incorporated railway companies, of bills and certificates for conferring further powers on those companies. [Royal assent,] 19th April, 1869. n.t.p. [Lond., 1869.] Q. p. (1.)

—— — 32 & 33 *Vict.* An act to amend the law relating to the abandonment of railways and the dissolution of railway companies. [Royal assent,] 11th August, 1869. n.t.p. [Lond., 1869.] Q. pp. 4.

—— — 33 & 34 *Vict.* An act to amend the Railway companies powers act, 1864, and the Railway construction facilities act, 1864. [Royal assent,] 20th June, 1870. n.t.p. [Lond., 1870.] Q. pp. 4.

—— — 36 & 37 *Vict.* An act to make better provision for carrying into effect the Railway and canal traffic act, 1854. [Royal assent,] 21st July, 1873. n.t.p. [Lond., 1889.] O. pp. 14.

—— — 51 & 52 *Vict.* An act for the better regulation of railway and canal traffic. [Royal

assent,] 10th August, 1888. n.t.p. [Lond., 1888.] Q. pp. iii + 32 + (1).
"Railway and canal traffic act, 1888."

—— —54 *Vict.* An act to remove doubts as to the powers of public bodies in reference to provisional order bills under the Railway and canal traffic act, 1888. [Royal assent,] 11th May, 1891. n.t.p. [Lond., 1891.] O. pp. 2.

—— —55 & 56 *Vict.* An act to amend the Railway and canal traffic act, 1888. [Royal assent,] 27th June, 1892. n.t.p. [Lond., 1892.]Q. pp. (1).

Gregg, W. P. *and* **Pond, B.** The railroad laws and charters of the United States, arranged in chronological order, with a synopsis and explanatory remarks. Boston, 1851. 2 vols. O. pp. xx + 954; xix + 1192.
Contents:—1. Maine, New Hampshire and Vermont.—2. Massachusetts, Rhode Island and Connecticut.

Gye, P. *and* **Waghorn, T.** The new law of rates and charges on railways and canals under the Railway and canal traffic act, 1888. Lond., 1889. O. pp. vi + 101.

Hartshorne, F. C. The railroads and the commerce clause. Philadelphia, 1892. O. pp. xxiii + 165.

Hodges, *Sir* **W.** A treatise on the law of railways, railway companies, and railway investments. 4th ed., by Charles Manley Smith. Lond., 1865. Q. pp. xxxvi + 624 + (1) + 346.

—— *Same.* 7th ed., by John M. Lely. Lond., 1888–89. 2 vols. Q. pp. (2) + v-lx + 758; (2) + v-xii + 558.
Contents:—1. The law of railways.—2. Statutes, rules, forms, and standing orders of Parliament.

Hunter, W. A. The Railway and canal traffic act, 1888. Part I: an exposition of section twenty-four of the act; a full account of the existing law with respect to maximum rates and terminal charges and the new classification of goods and revised schedules of rates of twenty-four principal railways of the United Kingdom. Lond., 1889. O. pp. (3) + vii–xv + 212.

Illinois—*General Assembly.* General rail road laws [1849–52.] n.p., n.d. O. pp. 21–45.
Cover title. In vol. "State railroad laws. Pamphlets."

Jones, L. A. A treatise on the law of corporate bonds and mortgages; being the second edition of *Railroad securities*, revised. Boston and N. Y., 1891. O. pp. xv + 664.

Junner, R. G. The practice before the Railway Commissioners under "The regulation of railways act, 1873;" with the law applicable thereto, and the general orders, forms, table of fees, statutes, &c. Lond., 1874. O. pp. xxxvi + 216.

Lacey, J. F. A digest of railway decisions; comprising all reported American cases in which a railway company is a party, and all other cases in which railway law is determined. Chicago, 1875–84. 2 vols. O. pp. 962; (5) + 5–1389.

Letter (A) to W. E. Gladstone, M. P., president of the Board of Trade, on railway legislation. Lond., 1844. O. pp. (1) + 57. P. 40.

McClain, E. Statutes of Iowa relating to railways, and notes of decisions thereunder. Des Moines, 1891. O. pp. (3) + 5–157.
"From the Report of the Railroad Commissioners for 1890."

Macdevitt, E. O. A manual of the acts for the construction of tramways and light railways in Ireland. Dublin, 1883. O. pp. (2) + 5–92.

McMaster, R. B. The railroad laws of New York; comprising an analytical arrangement of the entire statute laws of the State; with notes of judicial decisions. N. Y., 1872. O. pp. xii + 9–354 + (2).

Macpherson, P. I. The law expenditure of railway companies, considered with a view to its speedy and effectual reduction. Lond., [1850.] O. pp. 24. P. 65.

Maine—*Legislature.* Railroad laws; compiled by E. C. Farrington, clerk of Board of Railroad Commissioners. Augusta, 1893. Q. pp. 146.

Manier, W. H. Law of eminent domain and of railroads and warehouses; comprising the constitutional and statutory provisions in Illinois, together with the decisions relating thereto. Springfield, Ill., 1888. O. pp. vi + 467.

Massachusetts—*General Court.* An act for defining the rights and duties of rail road corporations. n.t.p. [Boston,] 1833. O. pp. 7. P. 99.

Morrison, J. The influence of English railway legislation of [*sic*] trade and industry; with an appendix. Lond., 1848. O. pp. (2) + 187.

—— Observations illustrative of the defects of the English system of railway legislation, and of its injurious operation on the public interests. Lond., 1846. O. pp. (1) + 5–44.

New Jersey—*Legislature.* The general railroad law. Approved April 2, 1873. Trenton, 1873. O. pp. 22.
In vol. "State railroad laws. Pamphlets."

New Mexico—*Legislative Assembly.* Railroad laws of New Mexico; compiled by Catron & Thornton, Santa Fé, N. M. Santa Fé, 1881. O. pp. (3) + 61.
In vol. "State railroad laws. Pamphlets."

New York (*City*)—*Common Council.* A compilation of the ferry leases and railroad grants made by the corporation of the city of New York, from July 1, 1849 to July 1, 1860; with the various ordinances, resolutions, &c., passed by the Common Council. N. Y., 1860. O. pp. 486.

—— A compilation of the existing ferry leases and railroad grants made by the corporation of

the city of New York, together with the grants from the legislature of the State to use the streets of the city for railroad purposes; also the various ordinances, resolutions, &c., passed by the Common Council; compiled by D. T. Valentine. N. Y., 1866. O. pp. (2) + 5–503.

Ohio — *General Assembly.* Laws relating to railroads, passed at the session ending March 30, 1875. Columbus, 1875. O. pp. 14.

Parsons, A. The liability of railway companies for negligence towards passengers. Lond., 1893. O. pp. xv + 196.

Patterson, C. S. Railway accident law: the liability of railways for injuries to the person. Philadelphia, 1886. O. pp. cix + 542.

Pennsylvania—*General Assembly.* A compilation of the canal and railroad laws of Pennsylvania, prepared and published under authority of a resolution of the House of Representatives, 16th June, 1836. Harrisburg, 1836. O. pp. 165 + 34.

Phillips, G. I. The Tramways act, 1870; with introduction, notes, the Board of Trade rules, and forms of bye-laws and provisional order; also a list of tramways. Oxford, Lond., 1890. D. pp. xvi + 152.

Pierce, E. L. A treatise on the law of railroads. Boston, 1881. O. pp. lxxxv + (1) + 575.

Preston, F. M. A manual of railway law. Lond., 1892. D. pp. (6) + 318.

Quebec (*Province.*) The Quebec railway statutes; a compilation of all railway charters granted, with the amendments thereto, up to and including the session of 1883; by Chris. Massiah, revised by R. J. Bradley. Quebec, 1883. O. pp. 717.

Railway Clearing House (*London.*) Railway clearing house: index to the law cases reported by the conferences of railway officers, from Sept., 1851 to Dec., 1853. Lond., 1854. O. pp. (1) + vi + 8.
In vol. "Railway clearing house. Pamphlets. 1."

Redfield, I. F. The law of railways, embracing the law of corporations, eminent domain, contracts, common carriers, telegraph companies, equity jurisdiction, taxation, the constitution, railway investments, &c. 6th ed.; by J. Kendrick Kinney. Boston, 1888. 2 vols. O. pp. cii + (1) + 727; lxxv + 775.

—— Leading American railway cases on many of the important questions involved in the law of railways; arranged according to subjects; with notes and opinions; being a supplement to the author's work on railways. Boston, 1872. 2 vols. O. pp. xlvi + (1) + 682; li + 721.
Vol 1 is 2nd. ed.

Rorer, D. A treatise on the law of railways. Chicago, 1884. 2 vols. O. pp. cxix + 739; 740–1618.

Shelford, L. The law of railways, including the consolidation and other general acts for regulating railways in England and Ireland, with notes of decided cases on their construction; including the rights and liabilities of shareholders, allottees of shares, and provisional committee men. 3d ed. Lond., 1853. O. pp. (2) + v–xlii + 826.

—— Shelford's law of railways, containing the whole of the statute law for the regulation of railways in England, Scotland, and Ireland; with notes of decided cases upon the statutes, introduction to the law of railways, and appendix of official documents. 4th ed., by W. Cunningham Glen. Lond., 1869. 2 vols. Q. pp. lxxxviii + 724; xxxi + (1) + 909.

Simon, H. A. Die Haftpflicht der Eisenbahnen, oder das Recht in Bezug auf Unfälle und Unregelmässigkeiten beim Eisenbahnbetriebe in England. Deutsch von M. M. Freih. von Weber. Weimar, 1868. O. pp. (2) + v–xiv + 120.

Smith, C. *and* **Bates, S. W.** Cases relating to the law of railways, decided in the Supreme Court of the United States, and in the courts of the several states. Boston, 1854–56. 2 vols. O.

Thornton, W. W. The law of railroad fences and private crossings, including injuries to animals on right of way, caused by negligence. Indianapolis, 1892. O. pp. xlvii + 3–590.

United States—*Interstate Commerce Commission.* Reports and decisions of the Commission; April 5th, 1887–Sept. 1st, 1893. N. Y., 1888–93. 5 vols. O.

—— Rules of practice in cases and proceedings before the Commission, adopted May 25, 1887. Washington, 1887. O. pp. 10.
In vol. "Interstate commerce commission. Pamphlets. 1."

Vermont — *General Assembly.* The general laws relating to railroads. St. Johnsbury, Vt., 1887. Q. pp. 55 + (1).
"Printed for Board of Railroad Commissioners."

Weimer, A. B. The law of railroads in Pennsylvania, including the law relating to street railways. Philadelphia, 1893. 2 vols. O. pp. xvi + 760; (2) + 761–1461.

Wentworth, J. T. The Interstate commerce law; being the Act to regulate commerce, with rules and forms adopted by the Commission, together with annotations of cases construing the law. Chicago, 1891. O. pp. xxiii + 114.

Wells, E. H. Railroad corporations in the State of New York: general railroad laws of New York, with decisions and forms. N. Y., Albany, 1893. O. pp. xxxiii + 666.

Wood, H. G. A treatise on the law of railroads. Boston, 1889. 3 vols. O. pp. viii + 720; (3) + 721–1426; (3) + 1427–1953.

Construction.

[**Album** encyclopédique des chemins de fer. n.t.p. Paris, 1860–83.] 8 vols. F^{8}. 53 *plates;* 56 *plates;* 39 *plates;* 80 *plates;* 35 *plates;* 50 *plates;* 101 *plates;* 54 *plates.*

Contents:—**1.** Ouvrages d'art.—**2.** Bâtiments.—**3.** Voie.—**4.** Matériel fixe de la voie.—**5.** Alimentations hydrauliques.—**6.** Appareils de levage et de pesage.—**7.** Locomotives.—**8.** Voitures et wagons.

Amsler-Laffon, J. Anwendung des Integrators (Momentenplanimeters) zur Berechnung des Auf- und Abtrages bei Anlage von Eisenbahnen, Strassen und Kanälen. Zürich, 1875. O. pp. (2) + 5–32. 25 *figs.*, 1 *fold. plate.* P. 24.

Baker, T. Railway engineering; or, field work preparatory to the construction of railways; containing the original and most approved methods of laying out railway curves, and of setting out the widths of the cuttings and embankments. Lond., 1848. O. pp. (7) + 64. 22 *figs.*, 1 *fold. table.*

Bauernfeind, C. M. Vorlegeblätter zur Strassen- und Eisenbahn-Baukunde mit erläuterndem Texte und einer Abhandlung über Erdabgleichung und Transportweiten. München, 1856. sq. F^{4}. pp. 22. 30 *fold. plates.*

Baum, C. Des longueurs virtuelles d'un tracé de chemin de fer. Paris, 1880. O. pp. (2) + 124.

"Extrait des *Annales des ponts et chaussées*, cahier de juin 1880."

"Ouvrages consultés," p. 122.

Bazaine, — Travaux et matériel de chemins de fer exécutés en majeure partie sous la direction de Mr. Bazaine. [Paris,] 1868. 6 vols in 7. F^{6}. pp. (6) + 109 *plates;* pp. (6) + 89 *plates;* pp. (6) + 142 *plates;* pp. (5) + 77 *plates;* pp. (6) + 118 *plates;* pp. (4) + 45 *plates;* pp. (4) + 65 *plates.*

Contents:—**I.** 1. Travaux d'art: cartes, plans et profils, tracés, terrassements, souterrains et viaducs en maçonnerie. —**I.** 2. Travaux d'art: viaducs métalliques, ponts, ponceaux et aqueducs, passages à niveau—**II.** Matériel fixe: voies, plaques tournantes, chariots arrêts, outillage, signaux, prises d'eau, appareils de changement et de pesage. —**III.** Bâtiments et constructions diverses: bâtiments des voyageurs et dépendances, halles à marchandises, remises à locomotives, remises à voitures: premiers types.—**IV.** Derniers types.—**V.** Matériel roulant: locomotives, tenders, voitures, wagons: ensembles.—**VI.** Détails.

Biot, E. Manuel du constructeur de chemins de fer, ou essai sur les principes généraux de l'art de construire les chemins de fer. Paris, 1834. T. pp. (2) + x + (1) + 287. 2 *fold. plates.*

Borden, S. A system of useful formulae, adapted to the practical operations of locating and constructing railroads. Boston, 1851. O. pp. x + (1) + 188. 32 *figs.*

"A paper read before the Boston Society of Civil Engineers, Dec., 1849."

Brard, C. P. Essai sur les moyens de multiplier les chemins de fer en France, et de diminuer l'entretien des grandes routes. Paris, 1830. O. pp. (2) + 5–30 + (1). 2 *plates.* P. 15.

Brees, S. C. Railway practice; a collection of working plans and practical details of construction in the public works of the most celebrated engineers. 2d ed., corrected and improved. Lond., 1838. sq. Q. pp. (5) + vii–xxxvi + 106. 81 *fold. plates.*

—— *Same.* n.t.p. F^{5}. 250 *plates*, 28 *fold. plates.*

Butts, E. The civil engineer's field-book; designed for the use of the locating engineer: containing tables of actual tangents, also tables of formulae applicable to railroad curves and the location of frogs. N. Y., 1890. S. pp. (3) + 269. 24 *figs.*

Byrne, O. Pocket-book for railroad and civil engineers. Philadelphia, 1889. S. pp. (1) + v–viii + 9–163. 79 *figs.*, 4 *plates*, 1 *fold. table.*

Cambier, A. Guide pratique sur les études, les expropriations et la construction d'un chemin de fer. Paris, 1879. O. pp. (5) + 158.

Cantalupi, A. Trattato elementare di costruzione delle strade ferrate. Milano, 1872. Q. pp. 848. 260 *figs.*, 5 *fold. plates.*

Lacking pp. 843–846.

Cleemann, T. M. The railroad engineer's practice; being a short but complete description of the duties of the young engineer in preliminary and location surveys and in construction. 4th ed., revised and enlarged. N.Y., 1892. D. pp. ix + 190. 75 *figs.*, 3 *plates*, 1 *fold. plate*, 1 *fold. table.*

Cross, C. S. Engineer's field book; by C. S. Cross; [with] seven chapters on railroad location and construction, by Geo. H. Frost. 4th ed. N. Y., 1893. S. pp. 166. 51 *figs.*

Day, J. A practical treatise on the construction and formation of railways, showing the practical application and expense of excavating, haulage, embanking, and permanent waylaying. Lond., 1839. O. pp. xii + 210. 12 *figs.*

—— *Same.* 2d ed. Lond., 1839. O. pp. xii + 210. 12 *figs.*

—— *Same.* 3d ed. Lond., 1848. O. pp. (4) + vii–xii + 216. 18 *figs.*

Deharme, E. Chemins de fer: superstructure; introduction, généralités, voie et accessoires de la voie, gares et stations, signaux. Paris, 1890. O. pp. (7) + 695 + (1). 310 *figs.* and *Atlas*, sq. F., *of* 73 *plates.* (Encyclopédie des travaux publics.)

Dempsey, G. D. Papers on the mechanical and engineering operations and structures combined in the making of a railway. Lond., 1846. sq. Q. pp. (1) + 135. 27 *fold. plates.*

—— The practical railway engineer: examples of the mechanical and engineering operations and

structures combined in the making of a railway. Lond., 1847. sq. Q. pp. (1) + 157. 50 *fold. plates.*

—— *Same.* 4th ed., revised and greatly extended. Lond., 1855. sq. Q. pp. (6) + 428 + 44. *frontisp. port.*, 75 *figs.*, 71 *fold. plates.*

Dubuisson, J. Études définitives d'une voie ferrée entre deux points donnés. 2e éd. Paris, 1888. O. pp. (2) + 327. 144 *figs.*

Ensamples of railway making. Lond., 1843. Q. pp. (6) + xlii + 101. *frontisp.*, 24 *fold. plates*, 2 *maps*, 2 *fold. tables.*

Contents:—Preliminary observations.—Utica and Syracuse railroad.—Railways of Belgium.

Gardner, E. V. An easy introduction to railway mensuration, showing a plain and easy method of taking out quantities of every description of railway work and estimating them, and setting out work for the making of railways generally. Lond., 1847. Q. pp. xi + 63 + (1). 36 *figs.*, 16 *fold. plates.*

Interleaved.

Gaunin, J. Tables trigonométriques pour le tracé des chemins de fer. Nouvelle éd. Paris, 1889. O. pp. xxxiii + 2–181. 17 *figs.*

Génieys, R. Recueil de tables à l'usage des ingénieurs. Paris, 1835. O. pp. (2) + v–xx + 270 + (1).

Germany. Normen fur den Bau und die Ausrüstung der Haupteisenbahnen Deutschlands, vom 5. Juli 1892. Berlin, 1892. Q. pp. 19. 4 *figs.*

—— Normen für die Konstruktion und Ausrüstung der Eisenbahnen Deutschlands, vom 30. November 1885. Berlin, 1886. S. pp. (2) + 5–23. 3 *figs.*

Gillespie, W. M. A manual of the principles and practice of road-making; comprising the location, construction, and improvement of roads and rail-roads. N. Y., 1847. O. pp. 336. 155 *figs.*

—— *Same.* 2d ed., with additions. N. Y., 1848. O. pp. 344. 155 *figs.*

—— *Same.* 8th ed., with additions. N.Y., 1854. O. pp. 372. 155 *figs.*, 1 *plate.*

—— *Same.* 9th ed., with additions. N.Y., 1856. O. pp. 372. 155 *figs.*, 1 *plate.*

Goering, A. Eisenbahnbau. 3e Auflage. Berlin, 1889. D. pp. 104. 96 *figs.*

"Für das Taschenbuch des Vereins "Hütte" XIV. Auflage nach den neuesten amtlichen Vorschriften bearbeitet."

"Sonderabdruck für den Verfasser."

Graeff, — Construction des canaux et des chemins de fer: histoire critique des travaux exécutés dans les Vosges au chemin de fer de Paris à Strasbourg et au canal de la Marne au Rhine. Paris, 1861. O. pp. (2) + v–xiv + 15–371. 1 *fold. table* and *Atlas*, sq. Q., *of* 6 *plates.*

Hardaway, B. H. Pocket-book of tables and formulae for railroad engineers, embracing those for running in transition curves. N. Y., Lond., 1886. D. pp. vi + (1) + 48. 20 *figs.*

Haskoll, W. Railway construction, from the setting out of the centre line to the completion of the works. Lond., 1857. 2 vols. Q. pp. x + 200. 97 *figs.*, 1 *plate*, 5 *fold. plates;* pp. 201–368. 42 *figs.*, 16 *plates*, 40 *fold. plates.*

—— Railway construction: second series. Lond.,1864. Q. pp. (3). 21 *plates*, 71 *fold. plates.*

Vol. 1 lacking.

—— Railways in the East, and generally in high thermometrical regions; a practical treatise on their establishment. Lond., 1863. Q. pp. iv + 201.

Henck, J. B. Field-book for railroad engineers; containing formulae for laying out curves, determining frog angles, levelling, calculating earthwork; with tables of radii, etc. Revised ed. N. Y., 1893. nar. S. pp. xv + (1) + 273. 77 *figs.*

Lapparent, A. de. La géologie en chemin de fer: description géologique du Bassin parisien et des régions adjacentes. Paris, 1888. D. pp. (2) + 608. 1 *fold. plate.*, 1 *fold. map*, 1 *fold. map in pocket.*

Launhardt, W. Theorie des Trassirens. Hannover, 1887–88. 2 pts. O. pp. iv + 112. 19 *figs.;* viii + (1) + 259. 23 *figs.*

Contents:—1. Die kommerzielle Trassirung.—2. Die technische Trassirung.

Loewe, F. Der Schienenweg der Eisenbahnen. Wien, Pest, Leipzig, 1887. O. pp. xi + 380. 142 *figs.* (Bibliothek des Eisenbahnwesens. VIII.)

Long, S. H. Rail road manual; or, a brief exposition of principles and deductions, applicable in tracing the route of a rail road. Baltimore, 1829–36. 2 pts. bd. in 1 vol. T. pp. (8) + 5–109. 13 *figs.;* pp. (44).

Manega, R. Anleitung zum Tracieren von Eisenbahnlinien fur angehende Ingenieure. 2e, unveränderte Auflage. Weimar, 1889. O. pp. viii + 192. 3 *fold. plates.*

Meissas, N. Tables pour servir aux études et à l'exécution des chemins de fer, ainsi que dans tous les travaux ou l'on fait usage du cercle et de la mesure des angles. 2e éd. Paris, 1867. D. pp. (4) + vii–xlvii + 379. 22 *figs.*

Orlandi, G. Manuale e tavole di celerimensura. Milano, 1889. S. pp. 92 + (909). 13 *figs.*, 1 *fold. table.*

Paulus, R. Bau und Ausrüstung der Eisenbahnen. Stuttgart, [1872.] O. pp. x + 374. 93 *figs.*

Quested, J. A treatise on railway surveying and levelling. Lond., 1846. O. pp. viii + 73. 13 *figs.*, 1 *fold. plate*, 1 *fold. plate in pocket.*

Realis, S. Memorie sulla costruzione delle strade ferrate. Torino, 1844. O. pp. 127. 2 *fold. plates.*

Reviczky, A. von. Sammlung der Eisenbahn-Bauvorschriften für Ungarn. Taschenausgabe. Budapest, 1888–89. 6 pts. bd. in 2 vols. D. pp. (2) + 42; (2) + 36 + (1); viii + 260; (3) + 59 + 19; (3) + 218; (3) + 159 + 13.

Salin, H. Manuel pratique des poseurs de voies de chemins de fer. 3e éd. Paris, 1889. D. pp. xiii + (1) + 3–198. 62 *figs.*, 1 *fold. plate.*

Searles, W. H. Field engineering; a handbook of the theory and practice of railway surveying, location and construction. 11th revised ed. N. Y., 1889. nar. S. pp. xiv + 503.

Seguin, — *aîné.* De l' influence des chemins de fer et l'art de les tracer et de les construire. Paris, 1839. O. pp. (2) + xix + 501. 6 *fold. plates.*

—— *Same, Italian.* Milano, 1840. pp. xv + 336. 5 *fold. plates.*

Shunk, W. F. The field engineer; a handy book of practice in the survey, location and trackwork of railroads; containing a large collection of rules and tables. 10th ed., revised and enlarged. N. Y., 1892. nar. S. pp. x + 339. 61 *figs.*

Simms, F. W., *editor.* Public works of Great Britain; consisting of railways, rails, chairs, blocks, cuttings, embankments, tunnels, oblique arches, viaducts, bridges, stations, locomotive engines, &c. 2nd ed. Lond., 1846. F^{s}. pp. (1) + 72 + 32 + 24. 6 *figs.*, 131 *plates.;* pp. (3) + 70. 1 *fig.*, 22 *plates.*

Contents:—**1.** Railways.—**2.** Canals, bridges, river walls, and the docks and port of Liverpool.—**3.** Turnpike roads, iron, steel, and gas works.

Lacking plates, 2, 4, 11, 12, 18, 19 and 2, 3.

Appended is: "A scientific, historical, and commercial survey of the harbour and port of London; by J. Elmes." Lond., 1838.

Sketch of a railway judiciously constructed between desirable points. N. Y., 1841. O. pp. vii + 9–125. 1 *fig.*, 2 *fold. charts.*

Soldati, V. Tavole tacheometriche in sostituzione delle scale logarithmiche nei calcoli di celerimensura. 3a ed., riveduta e corretta. Torino, Bologna, 1888. sq. Q. pp. xvi + 413. 2 *figs.*

Stephenson, *Sir* **R. MacD.** Elementary and practical instructions on the science of railway construction. 5th ed., revised and considerably augmented, by Edward Nugent. Lond., 1874. D. pp. viii + 262. 101 *figs.*, 2 *fold. plates.*

Stevenson, D. Sketch of the civil engineering of North America; comprising remarks on the harbours, river and lake navigation, lighthouses, steam-navigation, water-works, canals, roads, railways, bridges, and other works in that country. Lond., 1838. O. pp. (2) + vii–xv + (1) + 17–320. 9 *plates*, 5 *fold. plates*, 1 *fold. map.*

Vallée, Z. Notions pratiques sur les opérations du tracé et l' étude d' un avant-projet de chemin de fer, comprenant les problèmes de traction. Paris, 1888. D. pp. (5) + 248. 40 *figs.*, 4 *colored plates*, 4 *fold. plates.*

Vindrinet, A. Guide pratique pour le tracé des chemins de fer à l' usage des conducteurs, piqueurs. Chateauroux, Paris, 1853. O. pp. 151 + iv + (13). 21 *plates.*

Vose, G. L. Handbook of railroad construction; for the use of American engineers. Boston and Cambridge, 1857. O. pp. xx + 480. 157 *figs.*, 1 *fold. chart.*

—— Manual for railroad engineers and engineering students. Boston and N. Y., 1885. O. pp. (2) + v–xviii + (1) + 570. 165 *figs.*, 31 *fold. plates.*

Wellington, A. M. The economic theory of the location of railways; an analysis of the conditions which govern the judicious adjustment of gradients, curvature and length of line to each other and to the character and volume of traffic. N. Y., 1877. O. pp. xxii + 230 + (1). 5 *figs.*, 1 *fold. map*, 5 *fold. tables.*

—— *Same.* 4th revised and enlarged ed. N. Y., 1889. O. pp. xx + 980. 303 *figs.*, 10 *fold. plates.*

—— *Same.* 5th revised and enlarged ed. N. Y., 1891. O. pp. xx + 980. 303 *figs.*, 10 *fold. plates.*

Winkler, E. Vorträge über Eisenbahnbau. 1.–3., 5., 11. Heft. Prag, 1875–83. 5 vols. O. pp. (6) + 284. 329 *figs.*, 4 *plates;* pp. (6) + 268. 288 *figs.;* pp. (4) + 191. 115 *figs.*, 4 *plates*, 10 *fold. plates;* pp. (5) + 272. 275 *figs.*, 5 *fold. plates;* pp. x + 786. 474 *figs.*, 2 *fold. plates.*

Contents:—**1. Winkler, E.** Der Eisenbahn-Oberbau. 3e, verbesserte Auflage.—**2.** Die Weichen und Kreuzungen. 3e, verbesserte Auflage, von F. Steiner.—**3. Fränkel, W.** Schiebebühnen und Drehscheiben. 2e, verbesserte Auflage.—**5. Winkler, E.** Der Eisenbahn-Unterbau. 3e, verbesserte Auflage.—**11. Schmitt, E.** Das Signalwesen.

I. ROADBED.

Bernard, A. Mémoire sur l'exécution des terrassements de la ligne de Busigny à Somain. Paris, 1862. O. pp. (2) + 5–47. 6 *fold. plates.* P. 48.

"Extrait des *Annales des mines*, tome 2, 1862."

Bruère, R. Traité de consolidation de talus: routes, canaux et chemins de fer; précédé d'une préface par A. Perdonnet. Paris, 1873. D. pp. (2) + v–xi + 311; and *Atlas*, O., *of* 25 *fold. plates.*

Brunton, W. Description of a practical and economical method of excavating ground and forming embankments for railways. Lond., 1836. O. pp. 30. 1 *fig.*, 2 *fold. plates.* P. 47.

Clavenad, C. Stabilité, mouvements et rupture des massifs cohérents ou sans cohésion; considérations sur la poussée des terres et étude spécial des murs de soutènement et des barrages. Lyon, 1890. O. pp. (2) + 96. 66 *figs.*, 2 *fold. plates.* P. 24.

Crandall, C. L. Tables for the computation of railway and other earthwork. Ithaca, N. Y., [1886.] O. pp. (3) + 11 + (20).

—— *Same.* 2d. ed. N. Y., 1893. nar. O. pp. (4) + 24 + 18. 10 *figs.*

Cunningham, D. Tables for facilitating the calculation of earthwork in the construction of railways. 2d. ed. Lond. and N. Y., 1875. Q. pp. (3) + vii–xx + 100. 9 *figs.*, 3 *fold. tables.*

Haskoll, W. D. The assistant engineer's railway guide in boring, stumping and picking out centre lines and curves, setting out slopes and foundations of works; on masonry, brickwork, concrete, mortar and cements; preceded by memoranda on specifications. Lond., 1846. O. pp. (2) + 136. 59. *figs.*, 3 *fold. plates.*

Hasley, J. Railway masonry and bridge foundations. Chicago, 1883. D. pp. 64. 25 *figs.*

Heyne, W. Des travaux de terrassement relatifs aux chemins de fer et aux routes. Paris, 1878. O. pp. (2) + v–xii + 340. 170 *figs.*

Hughes, J. Concise tables to facilitate the calculation of earthwork and land, required in the construction of railways, canals and other public works. Lond., 1846. S. pp. (6) + 9–26. P. 47.

Lethier, — *and* **Jozan, —** Note sur la consolidation des terrassements du chemin de fer de Gien à Auxerre (section de Toucy-Moulins à Auxerre.) Paris, 1888. O. pp. 16. 2 *fold. plates.* P. 48.

"Extrait des *Annales des ponts et chaussées*, juillet, 1888."

Macaire, J. Mémoire sur un nouveau système de tables de terrassements donnant simultanément au moyen de calculs courts et faciles; pour les chemins de fer. Paris, 1846. O. pp. (1) + 77. P. 48.

"Extrait des *Annales des ponts et chaussées.*"

Newman, J. Earthwork slips and subsidences upon public works: their causes, prevention and reparation. Lond. and N. Y., 1890. D. pp. viii + 234.

Practical inquiry (A) into the laws of excavation and embankment upon railways; by a resident assistant engineer. Lond., 1840. O. pp. (3) + vii–xiv + 15–173. 3 *fold. plates.*

Simms, F. W. A treatise on the principles and practice of levelling, shewing its application to purposes of railway engineering and the construction of roads, by F. W. Simms; with Mr. Law's practical examples for setting out railway curves. 3d ed., revised, with additions. Lond., 1846. O. pp vii + 159. 19 *figs.*, 1 *plate*, 6 *fold. plates.*

—— *Same.* 4th ed., revised with additions. Lond., 1856. O. pp. vii + 215. 43 *figs.*, 1 *plate*, 6 *fold. plates.*

Wellington, A. M. Methods for the computation of railway earthwork; with diagrams giving quantities on inspection to the nearest cubic yard, for both regular and irregular sections, direct from ordinary field-notes. N. Y., 1874–88. O. pp. xiv + (1) + 163. 29 *figs.*, and *Case* sq. O. *of* pp. (4) *with* 12 *fold. plates.*

II. TRACK.

Cole, W. H. Notes on permanent-way material, platelaying and points and crossings. Lond. and N. Y., 1890. D. pp. vii + 90. 18 *plates.*

Johnson Company (*Johnstown, Pa.*) Catalogue no. 9. [rails, switches, crossings, joints, chairs, tie plates, etc.] Johnstown, Pa., 1894. obl. O. pp. 187. 80 *figs.*

Lallemand, V. Construction des voies ferrées dans les stations, traversées & bifurcations. Bruxelles, 1881. 3 pts. bd. in 1 vol. O. pp. 92 + (2); 132; 27. 1 *fold. plate*, and *Atlas*, sq. Q., *of* 10 *fold. plates.*

Contents:—1. Voies droites.—2. Voies courbes.—3. Supplément de la première partie.

Loree, L. F. Track. Madison, Wis., 1894. O. pp. 24. (Bulletin of the University of Wisconsin. Engineering series, vol. 1, no. 1.) P. 67.

Cover title.

Robinson, S. W. Railroad economics; or notes, with comments, from a tour over Ohio railways. N. Y., 1882. T. pp. vi + 7–131. 15 *figs.*, 1 *fold. table.* (Van Nostrand's science series, no. 59.)

"Reprinted from *Van Nostrand's magazine.*"

Schubert, E. Die Umbildungen des Planums und der Bettung eines Eisenbahngeleises während des Betriebes. Berlin, 1890. Q. pp. 34. 2 *fold. plates.*

"Sonderabdruck aus der *Zeitschrift für Bauwesen.*"

—— Die Umbildungen und die Tragfähigkeit des Planums von Eisenbahn-Dämmen bei Verwendung verschiedener Oberbau-Systeme. Berlin, 1891. Q. pp. 35. 3 *fold. plates.*

"Sonderabdruck aus der *Zeitschrift für Bauwesen.*"

Stane, A. Theorie und Praxis des Eisenbahngleises. Wien und Leipzig, 1892. O. pp. vi + 168. 16 *figs.*, 12 *fold. plates*, 6 *fold. tables.*

a. Curves and Turnouts.

Aretin, T. *Freiherr* **von.** Handbuch zum Abstecken von Curven sowie zur Bestimmung der

Winkel ohne Mess-Instrumente. 2e, vermehrte und verbesserte Auflage. München, 1893. nar. S. pp. 96. 2 *fold. plates.*

Baugut, B. J. Anleitung zum Legen der Bahnhof-Geleise. Brünn, 1861. O. pp. vi + 224. 61 *figs.*

Beans, E. W. A treatise on railway curves and location. Philadelphia, 1872. D. pp. 56. 18 *figs.*, 1 *plate*, 1 *fold. plate.*

Becker, W. Die Absteckung von Strassen- und Eisenbahncurven, mit und ohne Benutzung eines Winkelinstrumentes. 2e, unveranderte Ausgabe. Wien, 1891. S. pp. 52. 1 *fold. plate.*

Boedecker, — Die Wirkungen zwischen Rad und Schiene und ihre Einflüsse auf den Lauf und den Bewegungswiderstand der Fahrzeuge in den Eisenbahnzügen. Hannover, 1887. nar. O. pp. vi + 113. 45 *figs.*, 2 *fold. plates.*

Cecchi, G. Scambii; dissertazione. Torino, 1873. O. pp. (2) + 5–18. 1 *plate.* P. 67.

Chemins de fer: courbes à très petit rayon. (Système Laignel.) Paris, 1835. O. pp. 82. 1 *fold. plate.* P. 22.

Chevallot, P. M. Tables pour le tracé des courbes sur le terrain. 4e éd. Paris, 1872. D. pp. (2) + 40 + 135. 3 *fold. plates.*

Clark, J. M. A new system of laying out railway turn-outs instantly, by inspection from tables. N. Y., 1884. D. pp. 38. 3 *plates.*

Combier, C. Tables des courbes de raccordement, contenant les divers éléments du tracé des courbes circulaires. Nouvelle éd. Paris, 1884. S. pp. (2) + v–xxvii + 207. 4 *figs.*

Darbyshire, G. C. Tables for setting out curves for railways. Lond., 1846. obl. D. pp. 13. 1 *fig.* P. 47.

Daudrix, J. G. Étude sur le tracé des courbes circulaires et paraboliques de raccordement pour chemins de fer, routes et canaux et sur l'implantation des axes des ouvrages en courbe. Paris, 1893. nar. O. pp. 204. 30. *figs.*

"Extrait du *Bulletin technologique* de la Société des Anciens Élèves des Écoles nationales d' Arts et Métiers, décembre 1892."

Fox, W. G. Transition curves; a field book for engineers; containing rules and tables. N. Y., 1893. T. pp. 80. 5 *figs.* (Van Nostrand's science series, no. 110.)

Grillo, P. Manuale per il tracciamento delle curve circolari con e senza curva di raccordo e delle normali alle medesime per strade ferrate, strade carrozzabili e canali. Palermo, 1891. S. pp. (1) + ix–xlix + 311. 27 *figs.*

Hecht, K. Hand- und Hülfsbuch zum Abstecken von Eisenbahn- und Strassenkurven, mit besonderer Rücksicht auf die Verwertung der Kegelschnitte; nebst Anhang: Theorie der Rechenschieber, Rechenschieber für Kreisabsteckung, Verständigungssignale. Dresden, 1893. 2 pts. bd. in 1 vol. O. pp. vi + (1) + 125 + (2). 47 *figs.*, 2 *fold. plates;* pp. (3) + 231.

—— Hülfsbuch zum Abstecken von Kreisbögen mit Rücksicht auf die parabolischen Uebergangskurven; nebst Anhang: Verstandigungssignale. Dresden, 1893. O. pp. iv + 28 + 3 + 99. 16 *figs.*

Hogg, C. P. Tables to facilitate the setting out of railway curves, by the method of tangentical angles. Lond., 1872. 25 *discs in case*, sq. Fe.

—— *Same.* Explanation of the tables. Lond., and N. Y., 1872. obl. Fe. pp. (3).

Howard, C. R. The transition-curve field-book; containing instructions for adjusting and locating a curve nearly identical with the cubic parabola in transition between any circular railroad curve and tangent. N. Y., 1891. nar. S. pp. v + 109. 8 *figs.*

Jacquet, A. Tracé général des courbes circulaires, elliptiques et paraboliques de raccordement pour chemins de fer, routes, canaux, etc. Nouvelle éd. Paris, 1884. O. pp. (2) + liii + (1) + 257 + (46). 3 *fold. plates.*

Kennedy, A. *and* **Hackwood, R. W.** Tables for setting out curves for railways, canals, roads, etc., varying from a radius of five chains to three miles. Lond. and N. Y., 1873. sq. T. pp. (2) + 5–70. 3 *figs.*

Knoll, C. Taschenbuch zum Abstecken der Kurven an Eisenbahnen und Strassen. Stuttgart, 1873. D. pp. viii + 185. 29 *figs.*

Kröhnke, H. Handbuch zum Abstecken von Curven auf Eisenbahn- und Wegelinien. Leipzig, 1851. T. pp. vi + 193. 1 *fold. plate.*

—— *Same.* 2e, durchgesehene Auflage. Leipzig, 1857. S. pp. v + (1) + 193. 1 *fold. plate.*

—— *Same, Italian;* tradotto dall' L. Loria. 2a ed. riveduta. Milano, 1889. S. pp. (3) + 163. 1 *fold. table.*

Livingston, D. Treatise on the setting out of railway curves; with tables of the angles, distances, and offsets required. Lond., 1873. O. pp. (5) + 147. 6 *figs.*

Maridet, J. Calculs de voies ou application de la trigonométrie aux calculs des branchements, traversées, communications et raccordements des voies dans les gares. Paris, 1876. O. pp. (2) + 5–103. 65 *figs.*, 4 *fold. tables.*

Mifflin, S. W. Methods of location, or modes of describing and adjusting railway curves and tangents, as practised by the engineers of Pennsylvania. Philadelphia, 1837. D. pp. 41. 26 *figs.*

—— *Same.* 3d ed., revised and greatly improved. Philadelphia, 1854. D. pp. 48. 29 *figs.*

Nell, A. M. *and* **Kauffmann, E. W.** Lehre von den Eisenbahncurven und Ausweichgeleisen. 3e Ausgabe. Leipzig, 1882. O. pp. iv + 136 + (4), and *Atlas*, sq. O., *of* 17 *plates*.

Oliver, J. S. Table for setting out curves on railways and other public works. Lond., 1860. broadside, folded to nar. O.

Parsons, W. B. *jr.* Turnouts: exact formulæ for their determination, together with practical and accurate tables for use in the field. N. Y., 1884. T. pp. (7) + 39. 8 *figs.*, 11 *tables*, 2 *fold. tables*.

Pochet, L. Théorie du mouvement en courbe sur les chemins de fer, avec ses applications à la voie et au matériel. Paris, 1882. O. pp. (2) + 232. 86 *figs.*

Roy, E. Expériences et études sur le passage en courbe du matériel roulant. Paris, 1894. O. pp. 59. 11 *figs.*, 1 *fold. plate*.
"Extrait des *Mémoires de la Société des Ingénieurs civils de France*. Bulletin de février, 1894."

Searles, W. H. The railroad spiral: the theory of the compound transition curve reduced to practical formulae, and rules for application in field work. 5th ed. Second thousand. N. Y., 1894. nar. S. pp. vii + 95. 12 *figs.*

Shunk, W. F. A practical treatise on railway curves and location, for young engineers. Philadelphia, 1854. nar. D. pp. vi + 7–106. 29 *figs.*

—— *Same.* Philadelphia, 1890. D. pp. vi + 7–106. 29 *figs.*

b. Rails.

Barlow, P. Experiments on the transverse strength and other properties of malleable iron, with reference to its uses for railway bars; and a report founded on the same; addressed to the directors of the London and Birmingham railway. Lond., 1835. O. pp. 97. 16 *figs.*

—— *Same, French.* Expériences sur la force transversale et les autres propriétés du fer malléable dans son application aux chemins de fer; suivies d' un rapport sur les rails du chemin de Liverpool à Manchester. Traduit par C. Quilhet. Paris, 1838. O. pp. (6) + 151. 2 *fold. plates.*

Bernard, A. Note sur l'emploi des rails d'acier. Paris, 1876. O. pp. (2) + 5–24. P. 48.
"Extrait des *Annales des mines*, tome 11, 1876."

—— Recherche des moyens d'améliorer les voies ferrées et de résoudre le problème de la voie entièrement métallique. Namur, 1883. O. pp. 49. 1 *fold. plate*. P. 22.

Cambria Iron and Steel Works (*Johnstown, Pa.*) [Catalogue of iron and steel rails.] [Philadelphia,] n.d. obl. S. pp. (7) + 71 + (1). 72 *figs.*

Corlett, H. L. Rails and railways. [Glasgow, 1860.] O. pp. 4. 1 *fold. plate*. P. 80.
From the *Practical mechanic's journal*, April 1, 1860."

Curtel, A. Mémoire sur la fabrication et le prix de revient des rails. Montluçon, 1857. O. pp. (1) + 44. 1 *fold. plate*. P. 22.
Cover has imprint Paris, 1857.

Dausse, — Proposition de nouveaux rails pour les chemins de fer. Paris, 1835. O. pp. (2) + 3–20. 1 *fold. plate*. P. 22.

Donaldson, W. Tables for plate layers. Lond., 1871. D. pp. (2) + 5–23. 3 *plates*, 2 *fold. tables*.

Haarmann, A. Das Eisenbahn-Geleise. Leipzig, 1891. 1 vol. bd. in 2. sq. Q. pp. xl + (1) + 852. 1837 *figs.*

Locard, E. Recherches sur les rails et leurs supports; extrait des ouvrages anglais de P. Barlow et N. Wood; suivi de la description des rails et des coussinets employés sur les principaux chemins de fer d' Europe et d' Amérique. Paris, 1853. O. pp. (6) + 616, and *Atlas*, sq. Q., *of* 15 *fold. plates*.

Loewe, F. Ueber Normal-Profile von Eisenbahn-Schienen. München, 1884. F. pp. 14. 16 *figs.*
"Separatabdruck aus der *Zeitschrift für Baukunde*, Band 7."

Montezemolo, L. Delle traversine di ferro nell' armamento delle ferrovie. Milano, 1877. O. pp. 69. 5 *fold. plates*. P. 67.
"Estratto dal *Politecnico*, vol. 25."

Mussy, — Note sur les dimensions et profils des rails et notamment de ceux adoptés sur les lignes parcourues par des trains rapides. Paris, 1890. O. pp. 117 + (1). 2 *fold. plates*.
"Extrait des *Annales des ponts et chaussées*, juillet, 1890."

Pollitzer, M. Die Materialien aus Eisen und Stahl für Eisenbahnzwecke. Wien, 1887. O. pp. (6) + 155 + (3). 147 *figs.*, 10 *fold. plates*. (Höhere Eisenbahnkunde, Bd. 1.)

Prindle Rail Company (*Litchfield, Conn.*) Double, reversible, continuous rail, for railroad track. L. B. Prindle's patent. Litchfield, Conn., 1869. O. pp. 7. 3 *figs.*

Sandberg, C. P. The manufacture and wear of rails. Lond., 1869. O. pp. 91. 7 *figs.*, 1 *plate*, 2 *fold. plates*.

[Saviotti, C.] Studio sulle traverse delle strade ferrate. n.t.p. [Milano,] n.d. O. pp. 11. 3 *fold. plates*. P. 67.
"Estratto dal *Politecnico*, anno 24."

[Serres, A. W. de.] Voie entièrement métallique à rail composé: système à longrines de Serres & Battig. Bruxelles, 1879. F. pp. (4) + 9–118 + (3). 67 *figs.*, 30 *fold. plates*.

Stévart, A. Rails durs ou rails doux? Liége, 1891. O. pp. 24. 1 *fold. plate*.
"Extrait de la *Revue universelle des mines* tome 13, 3e série. 35e année, 1891."

Verein Deutscher Eisenbahn-Verwaltungen. Statistik über die Dauer der Schienen in den

Hauptgeleisen der Bahnen. Erhebungs-Jahre 1879–1884. Berlin, 1887. sq. F. pp. iv + 125. 23 *fold. plates.*

—— *Same.* Erhebungs-Jahre 1879–1890. Berlin, 1893. sq F. pp. viii + 123. 18 *fold. plates.*

Zimmermann, H. Die Bedingungen einer dauerhaften Schienenstoss-Verbindung. Berlin, 1892. Q. pp. 20. 20 *figs.*
"Sonderabdruck aus dem *Centralblatt der Bauverwaltung.*"

c. Switches and Crossings.

Automatic Railway Switch Company (*San Francisco, Cal.*) Prospectus. San Francisco, 1884. O. pp. 12. 3 *figs.* P. 93.

Donaldson, W. Switches and crossings; formulae for ascertaining the angles of crossings, the lengths of switches, and the distances of the points of the crossings and the heels of the switches from the springing of the curve. Lond., 1871. O. pp. (5) + 256. 4 *plates*, 2 *fold. plates.*

Ekama, P. E. Die mathematische Berechnung und geometrische Construction von Weichen und Kreuzungen in gekrümmten Eisenbahngeleisen. Wien, Haag, 1887. O. pp. (3) + 136 + (1). 24 *fold. plates.*

Lipthay von Kisfalud, A. Die Berechnung der Weichen und Geleisanlagen; übersetzt von Arthur Thiering. Budapest, 1892. sq. Q. pp. (5) + 152. 119 *figs.*

Lovell, D. H. Practical switch work; a hand-book for track foremen. 6th ed. Philadelphia, 1894. S. pp. 174. 25 *figs.*

Note sur un nouvel appareil pour manoeuvre et calage des aiguilles de changement de voie par un seul levier. (Système Dujour.) Paris, 1883. O. pp. 7. 1 *fold. plate.* P. 22.
"Extrait des *Annales des mines*, jan.-fév. 1883."

Pinzger, L. Die geometrische Construction von Weichen-Anlagen für Eisenbahn-Geleise; mit zahlreichen Tabellen und Rechnungsbeispielen fur den praktischen Gebrauch. 3e Ausgabe. Leipzig, 1882. O. pp. viii + 148. 14 *fold. plates.*

Poulet, — Note sur un noveau système de croisement de voies. Paris, 1870. O. pp. 8. 1 *fold. plate.* P. 22.
"Extrait des *Annales des mines*, tome 27, 1870."

d. Ties and Tie-plates.

Desbrière, — Note sur un nouveau système d'éclisses essayé sur la ligne de Nevers à Roanne. Paris, 1858. O. pp. 36. 1 *fold. plate.* P. 22.
"Extrait des *Annales des mines*, tome 14, 1858."

—— Note sur un système de bagues en fonte, applicable à la voie Vignole. Paris, 1864. O. pp. (2) + 16. 1 *fold. plate.* P. 24.
"Extrait des *Annales des ponts et chaussées*, 1863."

Maniel, — Note sur les traverses Pouillet et les voies avec rails dits de Vignole. Paris, 1862. O. pp. 19. 1 *fold. plate*, 11 *figs.* P. 48.
"Extrait des *Annales des ponts et chaussées*, tome 2, 1861."

Q. and C. Company (*Chicago, Ill.*) [Use and economy of tie-plates.] Chicago, [1894.] sq. S. pp. (1) + 29. 6 *figs.* P. 93.

Reece, B. Economies in maintenance of way. Chicago, n.d. S. pp. (1) + 29 + (4). P. 93.
"Read at the N. Y. Railroad Club, March 17, 1892."

—— The value of tie plates in track repairs: an analysis of the dimensions, form and functional purpose of tie plates. Chicago, [1894.] O. pp. 63. 30 *figs.* P. 93.
"Read before the Buffalo Association of Railroad Superintendents, April 19, 1894."

Rentergem, J. J. van. De la préparation des travers de chemins de fer par l'injection de liquides antiseptiques; [traduit du Hollandais par Adam.] Paris, [1876.] O. pp. 337–351 + 392–410. P. 22.
"Extracted from *Annales du génie civil.*"

United States—*Department of Agriculture.* Preliminary report on the use of metal track on railways as a substitute for wooden ties; by E. E. Tratman; to which is added a report of experiments in wood seasoning by the Chicago, Burlington and Quincy railroad. Compiled by B. E. Fernow. Washington, 1889. O. pp. (3) + 7–79. 5 *diagrs.* P. 67. (Forestry Division. Bulletin no. 3.)

—— Report on the relation of railroads to forest supplies and forestry; with appendices on the structure of some timber ties, their behavior, and the cause of their decay in the road-bed; on wood preservation; on metal ties; and on the use of spark arresters; [by B. E. Fernow.] Washington, 1887. O. pp. (3) + 7–149. 6 *figs.*, 21 *plates.* (Forestry Division. Bulletin no. 1.)

—— Report on the substitution of metal for wood in railroad ties; by E. E. R. Tratman; with a discussion on practicable economies in the use of wood for railway purposes; by B. E. Fernow. Washington, 1890. O. pp. 363. 31 *plates.* (Forestry Division. Bulletin no. 4.)

White, J. Description of certain improvements on railways, consisting of a newly invented rail-way chair, and of a slate block constructed by machinery. Lond., 1837. O. pp. 16. 1 *plate.* P. 35.

Zimmermann, H. Zur Berechnung der Schienenlaschen. Berlin, 1887–89. 2 pts. O. pp. 15. 8 *figs.*; pp. 32. 5 *figs.* P. 22.
"Sonderabdruck aus dem *Centralblatt der Bauverwaltung.*"

III. STRUCTURES.

Burkhardt, E. Die Störungen des Eisenbahnbetriebs durch Schnee und Eis und deren Beseitigung. Wiesbaden, 1887. O. pp. (4) + 7–43. 32 *figs.*
"*Litteratur*" pp. 41-43.

Grover, J. W. Iron and timber railway superstructures and general works, giving dimensions and quantities; with some earthwork tables, and outline of a specification and requirements. N. Y., 1874. F⁴. pp. (3) + 7–47. 3 *figs.*, 37 *plates.*

Nordling, W. Note sur les moyens de prévenir les amoncellements de neige sur les chemins de fer. Paris, 1865. nar. O. pp. (1) + 17. 1 *fold. plate.*
"Extrait des *Annales des ponts et chaussées*, 1865."

Osborne, R. B. Select plans of engineering structures for railroads and highways, as actually constructed; dimensions, quantities, and cost. Vol. 1. Philadelphia, 1885. obl. F. pp. (4). 35 *plates.*

Schubert, E. Schneewehen und Schneeschutzanlagen. Wiesbaden, 1888. D. pp. v + (1) + 98 + (8). 44 *figs*, 7 *fold. plates.*

Wilson Brothers & Co. (*Philadelphia, Pa.*) Catalogue of work executed, [including railroad bridges, stations, machine shops, car shops.] Philadelphia, [1885.] obl. O. pp. 70. 15 *cts.*, 63 *plates.*

a. Bridges.

Baker, B. Long-span railway bridges; comprising investigations of the comparative, theoretical and practical advantages of the various adopted or proposed type systems of construction. Philadelphia, 1870. D. pp. vii + 9–101. 2 *fold. plates.*
"Reprinted from *Engineering.*"

Barlow, C. The new Tay bridge; lectures delivered at the Royal School of Military Engineering, at Chatham, Nov., 1888. Lond. and N. Y., 1889. F⁴. pp. (5) + 46. 4 *figs.*, 22 *photos.*, 1 *fold. plate.*

Blair, — *and* Phillips, — An essay on an improved method of construction for viaducts, bridges and tunnels; being an application of the principle of universal gravitation, as illustrated in the solar system. Lond., 1845. O. pp. 10. 1 *plate.* P. 60.

Bock, M. Der Ausbau der Eisenbahnbrücke über die Save bei Brod. 1882–1884. Wien, 1885. O. pp. 72. *frontisp.*, 7 *fold. plates.*
"Separat-Abdruck aus den *Mittheilungen über Gegenstände des Artillerie- und Genie-Wesens.*"

Boller, A. P. New York, Providence and Boston railroad; report upon the construction of the Thames river bridge and approaches, at New London, Conn. [N. Y.,] 1890. obl. Q. pp. 43 + 17. 7 *figs.*, 1 *map*, 2 *plates*, 12 *fold. plates.*

Boyer, L. Chemin de fer de Marvéjols à Neussargues: viaduc de Garabit sur la Truevre. Paris, 1888. Q. pp. (2) + xv + 398. 156 *figs.*; and *Atlas*, obl Q., *of* 76 *fold. plates.*

Brunlees, J. Description of the iron viaducts erected across the tidal estuaries of the rivers Leven and Kent, in Morecambe bay, for the Ulverstone and Lancaster railway. Lond., 1858. O. pp. 9. 1 *fold. plate.* P. 87.
"Excerpt *Minutes of Proceedings of the Institution of Civil Engineers*, vol. 17, session 1857-58."

Cargill, T. A paper on the railway bridge at La Place de l'Europe, Paris; read before the Society of Engineers. Lond., [1866.] O. pp. (1) + 34. 3 *fold. plates.*

[Clark, L.] General description of the Britannia and Conway tubular bridges on the Chester & Holyhead railway. Lond., 1849. O. pp. 34. 4 *figs.* P. 60.

—— *Same.* 5th ed. Lond., 1850. O. pp. 40. 4 *figs.*, 1 *fold. plate.*

Cooper, T. American railroad bridges. N. Y., [1889.] O. pp. 60. 8 *plates*, 18 *fold. plates*, 2 *fold. tables.*
"From *Transactions of American Society of Civil Engineers.*"

Delannoy, F. L'appontement de Kotonou projeté et construit par MM. Daydé & Pillé. Paris, 1892. O. pp. 18. 16 *figs.*, 1 *fold. plate.* P. 37.
"Extrait du journal *Le Génie civil.*"

Dempsey, G. D. Rudimentary treatise: tubular and other iron girder bridges, particularly describing the Britannia and Conway tubular bridges; with a sketch of iron bridges, and illustrations of the application of malleable iron to the art of bridge building. Lond., 1850. D. pp. (5) + 132. 41 *figs.*, 1 *plate.*

Eisenbahnbrücke (Die) uber die Weichsel bei Graudenz. Berlin, 1885. nar. F⁵. pp. (1) + 18. 5 *figs.*, 13 *plates.*
"Sonderabdruck aus der *Zeitschrift für Bauwesen.*"

Ellet, C. *jr.* A popular notice of suspension bridges; with a brief description of the wire bridge across the Schuylkill, at Fairmount. Philadelphia, 1843. O. pp. (2) + 5–18. 1 *plate.*

—— Report on a rail-way suspension bridge across the Connecticut, at Middletown, with a proposal for its construction, to a committee of the citizens of Hartford. Philadelphia, 1848. O. pp. 62. 1 *fold. plate.*

Fairbairn, W. An account of the construction of the Britannia and Conway tubular bridges, with a history of their progress. Lond., 1849. nar. Q. pp. (2) + v–xii + 291. 78 *figs.*, 21 *fold. plates.*
Lacks plate 9.

Great Britain — *Board of Trade.* 1st–28th and final report of inspection by Major-general

Hutchinson and Major Marindin, of the bridge over the river Forth. Lond.,1883-90. 26 vols. F.
2nd and 3rd, and 26th and 27th reports combined.

Henry, R. Ponts et viaducs mobilisables, à éléments portatifs en acier pour chemins de fer et routes stratégiques. Nouvelle éd. Paris, 1891. O. pp. (4) + 110 + (1). 5 *figs.*, 10 *fold. plates.*

Hodges, J. Construction of the great Victoria bridge in Canada. Lond., 1860. F⁷. pp. (4) + 104. 25 *cts.*, 39 *plates*, 2 *fold. plates*, 21 *colored plates.*

Jervis, J. B. Report in relation to the railroad bridge over the Mississippi river, at Rock Island. N. Y., 1857. O. pp. 15. P. 60.

Loewe, F. Ueber variable Belastung der Eisenbahn-Brücken. München, 1874. O. pp. 32. 24 *figs.* P. 60.

Mallet, R. T. *and others.* Bridges on the Punjab Northern State railway. Lond., 1878. O. pp. 63. 3 *fold. plates.*
Contents:—**Mallet, R. T.** The Ravi bridge.—**Lambert, H.** The Alexandra bridge.—**Avern, F. M.** The Jhelum bridge.
"Excerpt *Minutes of Proceedings of the Institution of Civil Engineers*, vol. 54. Session 1877-78, pt. 4."

Mehrtens, — Zur Baugeschichte der alten Eisenbahnbrücken bei Dirschau und Marienburg. Berlin, 1893. sq. F⁴. pp. 15. 6 *figs.*
"Sonderabdruck aus der *Zeitschrift für Bauwesen*, Jahrgang 1893."

Merrill, *Col.* W. E. Iron truss bridges for railroads: method of calculating strains, with a comparison of the most prominent truss bridges, and new formulas for bridge computations; also, the economical angles for struts and ties. 4th ed., revised. N. Y., 1878. sq. F. pp. 130. 20 *figs.*, 7 *plates*, 2 *fold. plates.*

Middleton, R. E. Triangulation & measurements at the Forth bridge. Lond. and N. Y., 1887. O. pp. (2) + 5-48. 4 *figs.*
"Reprinted, with additions, from *The Engineer.*"

Myers, W. B. The "Schwedler" bridge: a comparison of the various forms of girder bridges. Lond. and N. Y., 1876. O. pp. 23. 3 *fold. plates.* P. 60.

Neri, G. Dei ponti e viadotti per strade ferrate: dissertazione. Torino, 1866. O. pp. (2) + 5-52. 2 *fold. plates.* P. 60.

Nordling, W. Note sur les ponts biais et les ponts courbes. Paris, 1869. nar. O. pp. (2) + 5-16. 2 *fold. plates.*
"Extrait des *Annales des ponts et chaussées*, t. 17, 1869."

[Phillips, P.] The Forth railway bridge; being the expanded edition of the giant's anatomy; by the author of "The Forth bridge in its various stages of construction." Edinburgh, 1890. sq. F. pp. (4) + 7-40. 20 *plates.*

[Pontzen, E.] The Verrugas viaduct compared with several other viaducts. N. Y., 1876. D. pp. 25. 1 *fold. plate*, 1 *fold. table.* P. 60.
Reprinted from the *Railroad gazette.* "Translated from the *Journal of the Austrian Society of Engineers and Architects.* No. 14, 1875."

Riese, O. Die Ingenieur-Bauwerke der Schweiz aus dem Gebiete des Strassen- Eisenbahnen- und Brückenbaues neurer Zeit. Berlin, 1887. Q. pp. 142. 101 *figs.*, and *Atlas of* 24 *plates.* F⁶.

Roebling, J. A. Long and short span railway bridges. N. Y., 1869. F⁶. pp. (4) + 3-50 + (13). *frontisp. port.*, 16 *figs.*, 13 *fold. plates.*

Seefehlner, J. Tabelle zur Berechnung der Eigengewichte eiserner Brückenconstruktionen fur Bahnen. Budapest, 1874. D. pp. 15. 2 *fold. tables.* P. 60.

Sommerfeldt, — Die Grundzüge der Festigkeitslehre in ihrer besonderen Anwendung auf die Berechnung provisorischer Eisenbahn-Brücken. Berlin, 1892. O. pp. vi + (2) + 258. 195 *figs.*

Verein Schweiz. Ingenieure und Architekten. Die Eisenbahnbrücke über die Aare bei Busswyl auf der Berner Staatsbahn zwischen Bern und Biel. Zürich, [1870.] F⁵. 11 *fold. plates.*
"Album des Vereins. Abtheilung Ingenieurwesen. 1. Lieferung." Cover title.

—— Die Eisenbahnbrücke über die Saane bei Freiburg auf der Eisenbahn von Lausanne über Freiburg nach Bern. Zürich, [1867.] F⁵. 12 *fold. plates.*
Cover title.

[Westhofer, W.] The Forth bridge. Lond., [189—] F⁴. pp. (3) + 72. 160 *figs.*, 4 *plates*, 15 *fold. plates.*

b. Buildings.

Berg, W. G. Buildings and structures of American railroads. 1st thousand. N. Y., 1893. sq. F. pp. xxxiv + 500. 691 *figs.*

Chabat, P. Bâtiments de chemins de fer: embarcadères, plans de gares, stations, abris, maisons de garde, remises de locomotives, halles à marchandises, remises de voitures, ateliers, réservoirs. Paris, 1862-66. 2 vols. F⁵. pp.(2) + 5-19 + (1). 100 *plates;* pp. (2) + 16. 100 *plates.*

Durlach, — *and* **Seelinger, —** Der Umbau des Bahnhofes Hannover. Hannover, 1886. F⁴. pp. 55. 2 *figs.*, 25 *fold. plates.*
"Sonder-Abdruck aus der *Zeitschrift des Architekten- und Ingenieur-Vereins zu Hannover*, Bd. 32, Jahrg. 1886, Heft 1-7."

Grover, J. W. Examples of station buildings and their cost, as executed on several railways. Lond., 1871. F⁴. p. (1). 13 *plates.*
"An appendix to *Estimates and diagrams of railway bridges, etc.*"

Havestadt, C. Die Eisenbahn-Anlagen in

Liverpool and Birkenhead. Berlin, 1887. sq. F. pp. 16. 5 *fold. plates.*
"Sonderdruck aus der *Zeitschrift für Bauwesen.*"

Marchesi, G. Studio sulle condizioni di equilibrio e di stabilità delle centine poligonali della grande tettoia pei convogli nella stazione d'Arezzo. Firenze, 1872. O. pp. 104. 3 *fold. plates.*

—— Rocca, G. della. Sulla memoria dell' ingegnere Giulio Marchesi intitolata: Studio sulle condizioni di equilibrio e di stabilità delle centine poligonali nella stazione d'Arezzo. Roma, 1873. O. pp. 148 + (2). 4 *fold. plates.*

Neumeister, A. *and* **Haberle, E.** Preisbewerbung um das Empfangsgebäude des neuen Hauptbahnhofs in Dresden. Leipzig, 1893. obl. O. pp. 44. 1 *fig.*, 36 *plates.*
Deutsche Konkurrenzen, 1 Jahrgang, Heft. 7-9.

Rosche, H. *and* **Fischel, H.** Die neueren Bahnhofsbauten der Kaiser Ferdinands-Nordbahn. Wien, 1894. O. pp. 39. 2 *fold. tables.*
"Sonder-Abdruck aus Nr. 1-4, 17 Jahrg. der *Oesterr. Eisenbahn-Zeitung.*"

Sévène, — Note sur la nouvelle gare des voyageurs du chemin de fer d' Orléans à Paris. Paris, 1871. O. pp. (2) + 5-12. p. 13.
"Extrait des *Annales des ponts et chaussées.* 1871."

Umbau (Der) des Bahnhofes in Halle a. d. Saale während der Jahre 1880 bis 1893. Berlin, 1893. nar. F[5]. pp. (3) + 29. 22 *figs*, 7 *plates*, 3 *fold. plates.*

c. Tunnels.

Candellero, C. Exposé de la question de la ventilation des grands tunnels. [Bruxelles,] n.d. sq. O. pp. 52. 2 *figs.* p. 67.
"Extrait du *Bulletin de la Commission internationale du Congrès des chemins de fer.*"

—— Ventilazione delle gallerie della ferrovia Transandina. Torino, 1891. O. pp. (3) + 7-34. 2 *figs.* p. 53.
"Estratto dal periodico *L'ingegneria civile e le arti industriali*, vol. 17."

Debauve, A. Manuel de l'ingénieur des ponts et chaussées. 12[e] fascicule. Construction des souterrains. Paris, 1874. O. pp. (2) + 110 + (2) and *Atlas*, sq. F., of 14 *fold. plates.*

Gripper, C. F. Railway tunnelling in heavy ground. Lond. and N. Y., 1879. Q. pp. (3) + 66. 1 *plate*, 2 *fold. plates.*

Lorenz, A. First oder Sohlenstollen bei Tunnelbauten? Zürich, 1875. O. pp. 11. p. 67.

—— Die Förderung bei Tunnelbauten. Zürich, 1876. O. pp. 17. 1 *plate.* p. 67.

Muzzani, I. La galleria elicoidale di Vernante. Tracciamento esterno ed interno. Torino, [1890.] O. pp. (4) + 7-37. 4 *fold. plates.* p. 67.

Piéron, — Note sur les travaux du nouveau tunnel sous la Tamise. Paris, 1870. O. pp. (2) + 5-16. p. 67.
"Extrait des *Annales des ponts et chaussées*, tome 19, 1870."

Simms, F. W. Practical tunnelling: explaining in detail the setting out of the works; and the construction of the brickwork of tunnels. Lond., 1844. sq. Q. pp. (3) + vii-xi + (1) + 174. 47 *figs.*, 5 *plates*, 8 *fold. plates.*

Walker, T. A. The Severn tunnel: its construction and difficulties. 1872-1887. 2d ed. Lond., 1890. Q. pp. (2) + vii-xxi + 188. 27 *plates*, 13 *fold. plates.*

Zwick, H. Neuere Tunnel-Bauten. Leipzig, 1873. Q. pp. (3) + 89. 46 *figs.* p. 85.
"Separat-Ausgabe aus dem Jahrbuch der praktischen Baugewerbe. 3[e] Jahrgang."

Equipment.

Clark, D. K. Railway machinery: a treatise on the mechanical engineering of railways; embracing the principles and construction of rolling and fixed plant. Glasgow, Edinburgh, Lond., and N. Y., 1855. F[4]. pp. (2) + v-xxiv + 335. 353 *figs.*, and *Atlas*, F[4], *of* 60 *plates*, 10 *diagrs.*

Colburn, Z. Locomotive engineering, and the mechanism of railways: a treatise on the principles and construction of the locomotive engine, railway carriages and railway plant. Lond., and Glasgow, 1871. F[4]. pp. (2) + v-xiv + 320. 240 *figs*, and *Atlas*, F[4]., *of* 63 *fold. plates.*

Meulen, M de. La locomotive, le matériel roulant et l'exploitation des voies ferrées. Paris, 1889. Q. pp. (8) + 259. 42 *figs.* 11 *plates.*

Meyer, G. Grundzüge des Eisenbahn-Maschinenbaues. Berlin, 1883-86. 4 vols. bd in 2. O. pp. (8) + 354. 473 *figs.*, 3 *fold. plates;* pp. (3) + vii-xiii + 326. 433 *figs.*, 4 *fold. plates;* pp. (3) + vii-xii + 347. 650 *figs;* pp. (3) + vii-xiii + (1) + 377. 410 *figs.*
Contents:—1. Die Lokomotiven.—2. Die Eisenbahnwagen.—3. Gleiskreuzungen, Ausweichungen [etc.]—4. Betriebsmittel für Nebenbahnen, Kleinbahnen und andere neuere Transport-Einrichtungen.

Sartiaux, E. *and* **Weissenbruch, L.** Les applications de l'électricité aux chemins de fer. Bruxelles, 1890. sq. O. pp. 176. 60 *figs.*, 1 *fold. plate.*
Contents:—Exposé de la question de l'éclairage électrique des trains et des gares.—Exposé de la question des freins électriques.—Exposé de la question de la soudure électrique.—Note sur les applications de l'électricité en général.
"Session de Paris du Congrès International des Chemins de fer, 14 au 24 septembre 1889."

United States—*Senate.* [Report from the Committee on Interstate Commerce on automatic couplers and power brakes.] Ordered printed, July 22, 1892. n.t.p. [Washington, 1892.] O. pp. 112.

Weissenborn, G. American locomotive engineering and railway mechanism; with a practical treatise on the material, draughting, construction and management of the locomotive engine and railway cars. N. Y., [1874.] sq. F°. pp. 224 + (3). and *Atlas*, nar. F°., *of* 95 *plates.*

I. BRAKES.

France — *Ministère de l'Agriculture, du Commerce et des Travaux Publics.* Arrêt des trains; appareil de M. de Bergue: commission des inventions et règlements concernant les chemins de fer; M. Combes, président. n.t.p. [Paris,] 1866. O. pp. 301–306. 1 *fold. plate.* P. 61.

"Extrait des *Annales des mines*, 6e série, tome 9."

—— Rapport sur le frein automoteur Lefèvre et Dorré; par une sous-commission composée de MM. Combes, Couche, Sauvage, Leblen. Paris, 1870. O. pp. (2) + 27. 1 *fold. plate.* P. 61.

"Extrait des *Annales des mines*, 6e série, tome 17."

Galton, D. The effect of brakes upon railway trains; reprinted, with a preface, by the Westinghouse Air Brake Company. Pittsburg, Pa., 1894. nar. O. pp. (1) + ix + (1) + 15–171. 20 *plates.*

Great Britain—*Board of Trade.* Railways: continuous brakes; return in pursuance of the Railway returns, continuous brakes act, 1878, by the railway companies of the United Kingdom, for the six months ending the 30th June, 1878–31st December, 1891. Lond., 1878-92. 28 pts. F.

—— — *Parliament*—41 *Vict.* An act to provide for returns respecting continuous brakes in use on passenger trains on railways. [Royal assent,] 17th June, 1878. n.t.p. [Lond., 1878.] Q. pp. 4.

[Kienesperger, —] Die Bremsen fur Eisenbahn-Fahrzeuge. Wien, 1891. Q. pp. (1) + 48. 80 *figs.*, 2 *plates.*

"Separatabdruck aus *Röll's Encyklopädie des gesamten Eisenbahnwesens.*" Bd. 2.

"Litteratur," p. 48.

Phelan, J. E. Air brake practice; a description of the construction, objects sought, and results obtained by the Westinghouse automatic air brake, as well as directions for operating it under conditions in daily practice. 2d ed. N.Y., [1890.] S. pp. v + (1) + 105. 2 *fold. plates in pocket.*

Reynolds, M. Continuous railway brakes; a practical treatise on the several systems in use in the United Kingdom, their construction and performance. Lond., 1882. O. pp. (2) + v–x + 228. 83 *figs.*, 9 *fold. plates.*

Shinn, W. P. Power brakes for freight trains. [N. Y., 1885.] O. pp. (70). 16 *plates.* P. 5.

Extracted from *American Society of Civil Engineers, Transactions*, vol. 14, Oct., 1885. pp. 405–471.

Smith's Vacuum Brake Company. The vacuum brake. n.t.p. [Lond.,] n.d. sq. Q. pp. 12. 8 *fold. plates.*

Synnestvedt, P. Diseases of the air brake system; their causes, symptoms and cure. Chicago, 1894. O. pp. (4) + 7–114. 46 *figs.*

Vicaire, E. Compte rendu des expériences entreprises au Chemin de fer du Nord, pour l'essai comparatif du frein à embrayage électrique de M. Achard, et du frein pneumatique de M. Smith. Paris, 1880. O. pp. (2) + 5–96. 3 *fold. plates.*

"Extrait des *Annales des mines*, livr. de novembre-décembre, 1880."

Westinghouse Air Brake Company. Instruction book: the quick action automatic brake. Pittsburgh, Pa., 1893. S. pp. 64 + 14 + 8. 5 *fold. plates*, 2 *cards in pocket*, 1 *fig.*

II. CARS.

Adams, W. B. English pleasure carriages; with an analysis of the construction of common roads and railroads, and the public vehicles used on them, with descriptions of new inventions. Lond., 1837. O. pp. xviii + (1) + 315. 9 *figs.*, 16 *plates.*

Belleroche, E. État actuel de la question chauffage complet des trains de voyageurs sur les chemins de fer: compte-rendu des expériences du Grand-Central-Belge. Paris, 1878. Q. pp. 52. 7 *fold. plates.* P. 23.

Forney, M. N., Garey, L. *and* **Smith, C. A.** The car-builder's dictionary; an illustrated vocabulary of terms which designate American railroad cars, their parts and attachments; compiled for the Master Car Builders' Association. 3d thousand. N. Y., 1881. obl. T. pp xiv + 491.

Jackson & Sharp Company. Delaware car works: passenger, sleeping, parlor, private, baggage, mail & freight cars: sectional work for exportation and electric and cable cars for street and suburban lines. Wilmington, Del., [1894.] obl. Q. pp. (6). 31 *photo. plates.*

Kalamazoo Railroad Velocipede & Car Company. Catalogue No. 9. Kalamazoo, Mich., [1894.] obl. D. pp. 40. *illus.*

McAlpine, J. D. Abstract of decisions of the arbitration committee of the Master Car Builders' Association: cases 1 to 186. November, 1888, to May, 1893. N. Y., 1893. T. pp. 48.

—— The car interchange manual, 1894 edition: a compendium of useful information for master car builders and car inspectors; including an abstract of the decisions of the arbitration committee of the Master Car Builders' Association. N. Y., 1894. T. pp. 86.

—— *Same.* 1895 ed. N.Y., 1895. T. pp. 89.

[Palmer, J. M.] Car ventilation. [Boston, 1893?] broaside. nar. Q. P. 88.

[——] A new system of ventilating cars: circular no. 3. Boston, 1893. folder. T. pp. (8.) 2 *figs.* P. 88.

[——] *Same:* circular no. 4. Boston, 1893. nar. S. pp. 15 + (1). 4 *figs.* P. 88.

[——] The Palmer system of car ventilation: the best, cheapest, and only efficient system. Boston, 1894. O. pp. 12. P. 88.

Paper read before the New England Railroad Club, Oct. 10, 1894.

Patent sectional transferable railway carriages. n.t.p. [Lond., 1846?] nar. O. pp. 27. 12 *figs.* P. 28.

Regray, L. Le chauffage des voitures de toutes classes sur les chemins de fer; publié par ordre du Conseil d'administration [de la Compagnie des Chemins de fer de l'Est.] Paris, 1876. O. pp. (2) + xxxi + 454. 25 *figs.*, 1 *fold. table* and *Atlas*, sq. F^{6}, *of* 31 *plates.*

Sheffield Car Company. [Catalogue of] light cars. Three Rivers, Mich., [1894.] O. pp. 96. 87 *figs.* P. 88.

—— Price list of extra parts [for] hand cars, velocipede cars, standpipes. Three Rivers, Mich., [1894.] O. pp. 15. *cts.* P. 88.

Voss, W. Railway car construction; a work describing in detail and illustrating with scale-drawings the different varieties of American cars as now built. N. Y., 1892. Q. pp. 176 + (1). 230 *figs*, 1 *plate*, 4 *fold. plates.*

Wellington, A. M., Penniman, W. B. D. *and* **Baker, C. W.** The comparative merits of various systems of car lighting: an investigation of the comparative cost, safety, light-giving powers, and general advantages of oil lamps, gasoline carbureters, compressed gas, electric lighting. N. Y., 1892. sq. S. pp. (1) + x + 303. 77 *figs.*, 13 *fold. plates.*

III. LOCOMOTIVES.

Alderson, M. A. An essay on the nature and application of steam, with an historical notice of the rise and progressive improvement of the steam-engine. Lond., 1834. O. pp. xvi + 124. 3 *figs*, 14 *plates*, 5 *fold. plates.*

Lacks plate xix. "The prize essay on this subject at the London Mechanics' Institution in 1833." Locomotive steam-carriages by Trevethic, Blenkinsop, Gurney, Ogle and Summers: Construction of the Manchester railway: Performance of Mr. Stevenson's engine, the Rocket, etc.

Alexander, S. A. Broke down: what I should do; ready reference and key for locomotive engineers and firemen, round house machinists, conductors, train hands and inspectors. York, Pa., 1890. 2 pts. in 1 vol. S. pp. (6) + 9–63. *frontisp. port.*, 3 *figs.*; pp. (6) + 9–34. *frontisp. port.*, 1 *fig.*

Audel, T. & Co. (*New York.*) [Catalogue of books for engineers with an account of] Six historical engines: the Branca, 1629; the Newcomen, 1705; the Watt, 1784; the Trevethic, 1803; Stephenson's Rocket, 1829; and the Corliss, 1876. n.t.p. obl. S. pp. (12). 7 *figs.* P. 35.

Baker, G. H. A manual of instruction for the economical management of locomotives; for locomotive engineers and firemen. Chicago, 1889. S. pp. 122. 7 *figs.*

Baldwin Locomotive Works. Exposición de Minería y Metalurgia, Santiago de Chile, Setiembre 1^{0}, 1894: exhibición de la fábrica de locomotoras "Baldwin," Burnham, Williams & Co., Filadelfia, Pa. n.p., [1894.] nar. O. pp. 35.

—— History of the Baldwin Locomotive Works from 1831 to 1881. Philadelphia, 1881. Q. pp. (2) + 5–53. 16 *figs.*, 1 *plate.*

—— Illustrated catalogue. 2d ed. Philadelphia, 1881. Q. pp. (2) +5–153. *frontisp.*, 26 *figs.*, 18 *photo. plates.*

—— Illustrated catalogue of mine locomotives and pneumatic locomotives. Philadelphia, 1885. Q. pp. 36. 4 *figs.*, 5 *photo. plates.*

—— Noiseless motors and steam street cars for city and suburban railways. 3d ed. Philadelphia, 1890. Q. pp. 24. 7 *figs.*

—— [Performance and economy of compound consolidation locomotive no. 45, in comparison with single-expansion consolidation locomotive no. 43, built for the Western Maryland railroad.] n.t.p., [1892.] Q. pp. (4). 1 *fig.*

—— Performance of a compound locomotive on the Long Island railroad. n.t.p. [Philadelphia, 1894.] O. pp. 8.

—— Record of runs of compound locomotives, nos. 680, 679, 682, 683, on the Philadelphia and Reading railroad and Atlantic City railroad. [Philadelphia, 1894.] O. pp. 14. 2 *diagrs.*, 1 *plate.*

—— Report of tests of a compound locomotive on the Norfolk and Western railroad. Philadelphia, [1892.] Q. pp. (1) +61–79. 1 *plate.*

—— Report of tests of compound locomotives. Philadelphia, [1892.] Q. pp. (2) + 5–79. 1 *fig.*, 4 *plates.*

—— The World's Columbian exposition, Chicago, 1893: exhibit of locomotives by the Baldwin Locomotive Works. Philadelphia, [1893.] Q. pp. (2) + 7–78. 1 *ct.*, 16 *plates.*

Béothy, A. Machine locomotive à grande vitesse de 750 chevaux-vapeur. Paris, 1889. Q. pp. (2) + 5–30 + (1). 3 *plates*, 2 *fold. plates.* P. 36.

Boglione, C. E. Descrizione particolarizzata della macchina inventata da Carlo Emanuele Boglione, il cui uso principale è per macchina locomotiva sulle strade ferrate. Asti, 1852. O. pp. (2) + 5–16. P. 71.

Bourne, J. A catechism of the steam engine in its various applications to mines, mills, steam navigation. railways and agriculture. New and revised ed. N. Y., 1872. D. pp. xii + 419. 77 *figs.*

—— *Same, supplement.* Recent improvements in the steam-engine in its various applications to mines, mills, steam navigation, railways and agriculture. New ed. Lond., 1880. S. pp. (5) + 336. 124 *figs.*

—— A treatise on the steam engine in its application to mines, mills, steam navigation and railways; by the Artizan Club, edited by John Bourne. 2d ed. Lond., 1847. sq. Q. pp. (5) + 258. 343 *figs.*, 21 *plates*, 9 *fold. plates.*

—— *Same.* 11th ed. A treatise on the steam-engine in its various applications to mines, mills, steam navigation, railways, and agriculture; and practical instructions for the manufacture and management of every species of engine in actual use; by John Bourne; being the 11th ed. of "A treatise on the steam-engine," by the "Artizan Club." Lond., 1876. sq. Q. pp. (3) + vii–xii + (2) + 495. *frontisp. port.*, 546 *figs.*, 19 *plates*, 18 *fold. plates.*

Brooks Locomotive Works. Catalogue of locomotives, 1894. Dunkirk, N. Y., [1894.] obl. T. pp. 237. 110 *plates.*

—— World's Columbian Exposition, Chicago, 1893. Exhibit of locomotives. Dunkirk, N.Y., n.d. obl. S. pp. (28). 10 *plates.*

Brosius, J. *and* **Koch, R.** Das Locomotivführer-Examen; ein Fragebuch aus der Verfasser Handbuche: Die "Schule des Locomotivführers"; mit einem Vorworte über die "Ausbildung des Maschinenpersonales". 6e, vermehrte Auflage. Wiesbaden, 1888. D. pp. 50.

"Preisgekrönt von dem Verein deutscher Eisenbahnverwaltungen."

—— Die Schule des Locomotivführers; Handbuch für Eisenbahnbeamte und Studirende technischer Anstalten. Mit einem Vorwort von E. Heusinger v. Waldegg. 6e, vermehrte und verbesserte Auflage. Wiesbaden, 1887. 3 pts. in 1 vol. D. pp. vi + 171. 167 *figs.*, 1 *fold. plate;* pp. vii + 171–515. 419 *figs.*, 1 *fold. plate;* pp. vii + 516–819. 142 *figs.*

Contents:—Der Locomotivkessel und seine Armatur.—Die Maschine und der Wagen.—Der Fahrdienst.

"Preisgekrönt von dem Verein deutscher Eisenbahnverwaltungen."

—— *Same.* 7e, vermehrte und verbesserte Auflage. Wiesbaden, 1885–91. 3 pts. in 1 vol. D. pp. vi + 185. 181 *figs.*, 1 *fold. plate;* pp. (2) + 171–520. 410 *figs.*, 1 *fold. plate;* pp. vii + 521–812. 140 *figs.*

Pts. 2 and 3 "5e vermehrte und verbesserte Auflage."

—— *Same.* 8e, vermehrte und verbesserte Auflage. Wiesbaden, 1892–94. 3 pts. in 1 vol. D. pp. ix + 208. 184 *figs.*, 1 *fold. plate;* pp. vii + 193–592. 441 *figs.*, 1 *fold. plate;* pp. vi + 336. 224 *figs.*

Pts. 2 and 3 "7e vermehrte und verbesserte Auflage."

—— *Same, French:* Le mécanicien de chemins de fer; par Emile With. Paris, 1885. O. pp. (2) + v–ix + 424. 624 *figs.*, 13 *fold. plates.*

Lorenz, *Catalogue générale de la librairie française*, vol. 9. p. 234: Le mécanicien de chemins de fer, par Brosius et Koch. Édition française par Émile With. 1883. Il existe des exemplaires qui portent sur le titre et la couverture le nom de M. With seul comme auteur. C'était une erreur de l'imprimerie dont l'éditeur ne s'est aperçu qu'après avoir mis en vente un certain nombre d'exemplaires."

—— *Same, Italian:* La locomotiva; sua costruzione ed arte di guidarla; manuale compilato sulla 5a edizione dell' opera di Brosius e Koch dagli ingegneri S. Fadda e A. Olivetti [S. Fadda e G. Silvola], corredato di numerose modificazioni ed aggiunte. Torino, Firenze, Roma, 1887–91. 4 vols. D. pp. xvi + 215. 154 *figs.*, 4 *fold. plates;* pp. viii + 308. 363 *figs*, 1 *fold. table;* pp. xi + 598. 211 *figs.*, 1 *fold. plate;* pp. (2) + 64.

Contents:—1. Della caldaia.—2. Meccanismo e carro della locomotiva.—3. Servizio della locomotiva nei treni. —4. Dizionario tecnologico Italiano, Francese, Tedesco e Inglese concernente la locomotiva e le strade ferrate: indice alfabetico dei nomi contenuti nell' opera "La locomotiva." Vols. 1 and 2, "2a ed."

Brown, W. H. The history of the first locomotives in America; from original documents, and the testimony of living witnesses. N. Y., 1871. O. pp. x + 9–242. 11 *cts.*, 2 *plates*, 6 *fold. plates.*

—— *Same.* Popular ed. Philadelphia,[1877.] O. pp. 48. 3 *cts.*, 3 *plates*, 4 *fold. plates.* P. 45.

Burn, R. S. The steam engine: its history and mechanism; being descriptions and illustrations of the stationary, locomotive and marine engine. 2d ed., corrected. Lond., 1857. O. pp. (2) + 7–142. *frontisp.*, 137 *figs.*

Colburn, Z. The locomotive engine; including a description of its structure, rules for estimating its capabilities, and practical observations on its construction and management. New ed. Philadelphia, 1853. D. pp. 187. 4 *figs.*

—— *Same.* New ed. Philadelphia, 1888. O. pp. 187. 4 *figs.*

Cooke, C. J. B. British locomotives: their history, construction and modern development. Lond. and N. Y., 1893. D. pp. xvi + 381. 145 *figs.*, 2 *plates*, 3 *fold. plates.*

Coste, F. Vade-mecum du mécanicien conducteur de machines locomotives, renfermant des instructions générales sur la conduite et l'entretien d'une locomotive, soit dans les stations, soit pend-

ant la circulation, ou en cas d'accident. Paris, 1847. S. pp. 142 + (1).

Couche, C. Observations sur les machines Engerth modifiées. n.t.p. [Paris, 1860.] nar. O. pp. 3–28. P. 36.
"Extrait des *Annales des mines*, tome 17, 1860."

Curr, J. Railway locomotion, and steam navigation: their principles and practice. Lond., 1847. O. pp. (2) + 181 + (1). 5 *figs.*

Deghilage, A. L. Origine de la locomotive. 2e éd. Paris, 1890. F. pp. (6) + 13–44 + (2). 22 *figs.*, 12 *fold. plates.*
"Ouvrages & périodiques à consulter," p. (5).

Demoulin, M. Étude sur les locomotives anglaises. Paris, 1885. O. pp. (2) + 5–110 + (1). 1 *fig.*, 6 *fold. plates.*

—— Note sur la construction des locomotives en Angleterre. Paris, 1889. Q. pp. (1) + 21. 3 *figs.*, 2 *fold. plates.* P. 36.
"Extrait du *Portefeuille economique des machines*, juin, 1889."

Dempsey, G. D. A rudimentary treatise on the locomotive engine in all its phases, popularly described. 2d ed. Lond., 1857. D. pp. (4) + 150. 53 *figs.*, 1 *fold. plate.* (Weale's rudimentary series, 78*.)

—— A rudimentary treatise on the locomotive engine, comprising an historical sketch and description of the locomotive engine; with large additions treating of the modern locomotive engine, by D. K. Clark. Lond., 1879. D. pp. (2) + v–xii + 240. 78 *figs.* (Weale's rudimentary series, 202.)

—— *Same.* 2d ed., revised. Lond., 1888. D. pp. (2) + v–xii + 240. 78 *figs.* (Weale's rudimentary series, 202.)

Edwards, E. Modern American locomotive engines; their design, construction and management; a practical work for practical men. Philadelphia, Lond., 1890. O. pp. xxiv + 25–383. 78 *figs.*, 1 *plate*, 2 *fold. plates.*

Evers, H. Steam and the steam engine; land, marine and locomotive. Lond. and Glasgow, 1873. D. pp. 373. 175 *figs.*, 4 *plates.* (Collins' advanced science series.)

Evidence showing the manner in which locomotive engines are used upon rail-roads; and the danger and inexpediency of permitting rival companies using them on the same road. Boston, 1838. O. pp. 22. P. 45.

Farey, J. A treatise on the steam engine, historical, practical and descriptive. Lond., 1827. sq. Q. pp. (2) + v–xii + (1) + 728. 54 *figs.*, 25 *plates.*

[Flachat, E. *and* **Petiet, J.** Guide du mécanicien-conducteur de machines locomotives. *English:*] The student's guide to the locomotive engine; being a description of the different modes of constructing locomotives, details of their component parts, and the nature of their employment; with observations on the management of locomotives. Lond., 1849. O. pp. (5) + 17–142 + (1) + xvi, and *Atlas*, O., *of* 72 *plates.*
"Consists principally of a translation from the French, of E. Flachat and J. Petiet"—Advertisement. First French ed. was published in Paris, 1840.

—— *Same, German.* Handbuch für Locomotiven-Führer, enthaltend eine theoretisch-practische Anweisung über die Einrichtung, Behandlung und Führung der Locomotiv- Dampfmaschinen. Aus dem Französischen von Carl Hartmann. Weimar, 1842. nar. D. pp. (2) + ix-xxiv + 288. 65 *fold. plates.*

Forney, M. N. Catechism of the locomotive. 20th thousand. N. Y., 1881. D. pp. xvi + 609. 230 *figs.*, 6 *plates*, 3 *fold. plates.*

—— *Same.* 2d ed., revised and enlarged. 37th thousand. N. Y., 1890. O. pp. xvi + 709. 488 *figs.*, 6 *fold. plates.*

—— *Same.* 2d ed., revised and enlarged. 48th thousand. N. Y., 1891. O. pp. xvi + 709. 488 *figs.*, 6 *fold. plates.*

France—*Ministère de l'Agriculture, du Commerce et des Travaux Publics.* Les chemins de fer à bon marché et leur exploitation économique; rapport sur le système de locomotive articulée à douze roues couplées, proposé par L. Rarchaert; par une commission composée de MM. Avril, Mary, Busche et Couche. Paris, 1863. O. pp. (2) + 5–39. 1 *fold. plate.* P. 71.
Contents:—Rapport.—**Bonnet,**—Note sur l'application du système de M. Rarchaert à une machine existante.—**Rarchaert, L.** Mémoire sur une locomotive articulée à douze roues couplées proposée pour l'exploitation des chemins de fer à fortes rampes et à petites courbes.
"Extrait des *Annales des mines*, tome 4, 1863."

—— *Same.* Paris, 1864. O. pp. (2) + 5–39. 1 *fold. plate.* P. 36.
"Extrait des *Annales des ponts et chaussées*, 1863."

—— Rapport sur le système de locomotive articulée et à douze roues couplées, proposé par L. Rarchaert; par une commission composée de MM. Avril, Mary, Busche et Couche. Paris, 1863. O. pp. 19. 1 *fold. plate.* P. 46.
"Extrait des *Annales des mines*, 1863."

Francq, L. La locomotive sans foyer appliquée aux tramways et aux chemins de fer sur routes: système Francq et Lamm. [Paris, 1878.] O. pp. (2) + 7–38. 2 *fold. plates.* P. 36.
"Association française pour l'Avancement des Sciences. Congrès de Paris août 1878. Communication de Léon Francq."

Frank, A. Die Widerstände der Locomotiven und Bahnzüge, der Wasser- und Kohlenverbrauch, sowie der Effect der Locomotiven. Wiesbaden, 1886. O. pp. 74. 2 *fold. charts.*

Frémaux, J. B. Mémoire sur un projet de mécanisme pouvant s'appliquer aux machines locomotives, pour gravir les rampes et les plans

inclinés des chemins de fer. Paris, 1851. O. pp. (3) + 3–52. 2 *fold. plates.* r. 46.

Galloway, E. History of the steam engine from its first invention to the present time. Lond., 1826. O. pp. (8) + 9–219 + (5). *frontisp.*, 150 *figs.*

—— *and* **Hebert, L.** History and progress of the steam engine; with a practical investigation of its structure and application; by Elijah Galloway. To which is added an appendix containing descriptions of all the various improved boilers; the constituent parts of steam engines; by Luke Hebert. Lond., 1829. O. pp. (3) + iv + 5–863. *frontisp.*, 381 *figs.*

—— *Same.* 1832. O. pp. (3) + iv + 5–863. *frontisp.*, 381 *figs.*

Galloway, R. L. The steam engine and its inventors; a historical sketch. Lond., 1881. D. pp. (2) + v–xix + 260. 50 *figs.*, 1 *fold. plate*, 1 *fold. map.*

Ghisi, L. A. Descrizione della locomotiva per le strade a rotaje di ferro e modo con cui agisce e si dirige. Milano, 1842. O. pp. (3) + 7–40. 1 *fold. plate.* r.71.

Gordon, A. Jets over de spoorwegen en de stoomwagens op gewone wegen, tot alle deskundigen en speculanten geright. 's Gravenhage, 1837. nar. O. pp. 58. 1 *plate.*

—— Stoomwagens op gewone wegen, als algemeen vervoer middel, mogelijk, nuttig en voordeelig voor Nederland. 's Gravenhage, 1838. nar. O. pp. 77. 1 *plate.*

Gordon, Alexander. Description of the fumific impeller; shewing the direct application of hot products of combustion to the bodies on which they are required to act, without the intervention of machinery. Lond., 1845. O. pp. (1) + 17. 2 *fold. plates.* r. 46.

"To Sir John Rennie with the writer's compts."

—— An historical and practical treatise upon elemental locomotion by means of steam carriages on common roads. Lond., and Edinburgh, 1832. O. pp. (7) + 192. 11 *plates*, 3 *fold. plates.*

—— *Same.* 2d ed., improved and enlarged: A treatise upon elemental locomotion and interior communication, wherein are explained and illustrated the history, practice and prospects of steam carriages, and the comparative value of turnpike roads, railways, and canals. Lond., 1834. O. pp. xiv + (2) + 326. 6 *figs.*, 4 *plates*, 8 *fold. plates.*

—— *Same. German.* Historische und practische Abhandlung uber Fortbewegung ohne Thierkraft, mittelst Dampfwagen auf gewöhnlichen Landstrassen. Weimar, 1833. O. pp. vi + (1) + 321. 14 *fold. plates*, 1 *fold. table.*

Presentation copy to the author from F. G. Welck, the translator.

Great Britain—*House of Commons.* Report from select committee on Goldsworthy Gurney's case; with the minutes of evidence. Ordered printed, 17 July 1834; 10 July 1835. [Lond., 1834-35.] 2 vols. F. pp. 88; 34.

—— Report from the committee on Goldsworthy Gurney's case. Ordered printed, 10 July, 1835. [Lond., 1835.] O. pp. 16. r. 35.

—— Report from select committee on steam carriages, with minutes of evidence and appendix. Ordered printed, 2d July, 1832. [Lond., 1832.] F. pp. 118.

—— *Same.* Reprinted by order of the House of Representatives. Washington, 1832. O. pp. 346 + 1.

Grimshaw, R. The locomotive catechism; containing nearly 1300 questions and answers concerning designing and constructing, repairing and running various kinds of locomotive engines. N. Y., and Lond., [1893.] D. pp. (5) + 9–362. 178 *figs.*, 9 *fold. plates.*

Hann, J. *and* **Gener, P.** *and* **J.** The steam engine for practical men; containing a theoretical investigation of the various rules given in the work, and tables. Lond., 1854. O. pp. (2) + v–xii + 240. 29 *figs.*, 4 *fold. plates.*

"On railways and locomotive engines" pp. 44 ff.

Henry, A. Étude expérimentale de la vaporisation dans les chaudières de locomotives, faite dans les ateliers du Chemin de fer de Paris à Lyon et à la Méditerranée. n.t.p. [Paris, 1894.] O. pp. 119–390. 11 *fold. plates.*

"Extrait des *Annales des mines*, 1894."

Herapath, J. A letter to the Duke of Wellington, on the utility, advantages, and national importance of Mr. Gurney's steam-carriage. Lond., 1829. O. pp. 48. 2 *figs.*

Hodge, P. R. Analytical principles and practical application of the expansive steam engine, as employed in pumping, manufacturing steam navigation, railway locomotion. Lond., 1849. sq. Q. pp. (6) + viii + (2) + 172. 16 *figs.*, 8 *fold. plates.*

Hughes, G. The construction of the modern locomotive. Lond. and N. Y., 1894. O. pp. (3) + vii–xiii + 261. 309 *figs.*, 3 *fold. plates.*

Jacqmin, F. Des machines à vapeur: leçons faites en 1869–1870 à l'École impériale des ponts et chaussées. Paris, 1870. 2 vols, bd. in 1. O. pp. (2) + xxxix + 428; pp. (2) + 521.

Koch, R. Meccanica delle strade ferrate: lavoro del materiale mobile, esercizio tecnico e officine di riparazione delle ferrovie; traduzione di Michele Fraehn. Torino, 1887. Q. pp. (1) + v–xxiv + 827 + (1). 98 *figs.*

Kosak, G. Katechismus der Einrichtung und des Betriebes der Locomotive: Eilzugs-, Personen- und Güterzugslocomotiven, Berglocomotive, Stras-

senlocomotive, Tramway-Locomotive; für Locomotivführer, Bahnbeamte, Studirende technischer Fachschulen, sowie zur populären Belehrung für Gebildete jedes Standes. 6e, vermehrte und verbesserte Auflage. Wien, 1892. D. pp. v + (1) + 239. *frontisp. port.*, 35 *figs.*, 4 *fold. plates.*

Lardner, D. Investigation of the causes of the explosion of the locomotive engine, "Richmond," near Reading, Pa., on the 2d Sept., 1844; made at the request of Messrs. Norris Brothers, Philadelphia. [N. Y.,] 1844. O. pp. (2) + 5–25. 1 *fold. plate.* P. 45.

—— The steam engine familarly explained and illustrated; with an historical sketch of its invention and progressive improvement, its applications to navigation and railways; with plain maxims for railway speculators. 6th ed., corrected and enlarged. Lond., 1836. D. pp. (2) + iii–xii + 391. 17 *figs.*, 11 *plates*, 2 *fold. plates.*

—— The steam engine explained and illustrated; with an account of its invention and progressive improvement, and its application to navigation and railways; including also a memoir of Watt. 7th ed. Lond., 1840. O. pp. (3) + vii–xix + 535. *frontisp.*, 32 *cuts.*, 136 *figs.*

—— *Same.* With additions and notes; by James Renwick. 3d American from 5th London ed., considerably enlarged. Philadelphia, 1838. O. pp. (3) + 7–324. 17 *figs.*

—— *Same.* 4th American from 5th London ed., considerably enlarged. Philadelphia, 1848. O. pp. (3) + 7–324. 17 *figs.*, 10 *plates*, 3 *fold. plates.*

—— *Same.* 6th American from 5th London ed., considerably enlarged. N. Y., 1856. O. pp. (3) + 7–324. 17 *figs.*, 10 *plates*, 3 *fold. plates.*

—— A rudimentary treatise on the steam engine; for the use of beginners. 9th ed. Lond., 1867. D. vi + 135. *frontisp.*, 19 *figs.*

Le Chatelier, L. Marche à contre-vapeur des machines locomotives; question de priorité. Paris, 1879. O. pp. 15.

—— Mémoire sur la marche à contre-vapeur des machines locomotives; notice historique. Paris, 1869. O. pp. 219. 2 *fold. plates.*

—— *Same.* Supplément. Paris, 1869. O. pp. (2) + 139 + (1).

Leroy, A. Traité pratique des machines locomotives à l'usage de mécaniciens, des chauffeurs, et autre agents spéciaux des ateliers et dépôts des chemins de fer. Dijon, 1879. O. pp. (2) + v–x + (1) + 11–546 + (1), and *Atlas*, sq. F., *of* 9 *fold. plates.*

Maceroni, F. Expositions and illustrations, interesting to those concerned in steam power, whether as applied to railroads, common roads, or to sea and inland navigation. Lond., 1835. O. pp. (4) + 126. 6 *figs.* P. 35.

"To —— from his affectionate friend the author."

—— A few facts concerning elementary locomotion. 2d ed. Lond., 1834. O. pp. 13. 1 *fold. table.*

—— Powers (The) and qualities of Maceroni's patent steam carriage demonstrated. Lond., 1835. O. pp. 23. P. 35.

"Extracted from a work called *Illustrations of steam power*, recently published."

—— *Same.* [Another ed.] Proofs and demonstrations of the powers and qualities of Maceroni's patent steam carriage, intended to be the first adopted by the National steam carriage association. Lond., 1835. O. pp. 26. P. 35.

Maey, H. Betrachtungen über die Lokomotiven der Jetztzeit für Eisenbahnen mit Normalspur. Wiesbaden, 1884. O. pp. vii + 217.

Mallet, A. Les locomotives à l'Exposition universelle de 1878. Paris, 1879. O. pp. (2) + v–viii + 99. 2 *fold. plates*, 1 *fold. table.*

Mann, W. A description of a new method of propelling locomotive machines, and of communicating power and motion to all other kinds of machinery. Lond., 1830. O. pp. iv + 5–56. *fold. colored frontisp.*, 2 *figs.*

[Marshall, W. P.] Description of the patent locomotive steam engine of Robert Stephenson and Co., Newcastle-upon-Tyne. Lond., 1838. sq. F. pp. (2) + 5–67. 42 *figs.*, 4 *fold. plates.*

"The following description was contributed to Tredgold's work on the steam engine, by the liberality of Robert Stephenson, having been written under his direction and revision by W. P. Marshall."—p. (2.)

Massieu, — Mémoire sur la locomotive à adhérence totale et à essieux convergents de M. Rarchaert. Paris, 1877. O. pp. (2) + 215. 4 *fold. plates.*

"Ce mémoire a été inséré dans les *Annales des mines* et dans les *Annales des ponts et chaussées* sur l'avis de la Commission des règlements et des inventions concernant les chemins de fer."

Meyer, J. G. A. Modern locomotive construction. N. Y., 1892. sq. F. pp. vi + 658. 1030 *figs.*

Norris, S. Norris's hand-book for locomotive engineers and machinists; comprising the proportions and calculations for constructing locomotives, manner of setting valves, tables of squares, cubes, areas, etc. Philadelphia, 1852. D. pp. 300. 65 *figs.*, 2 *plates.*

—— *Same.* Philadelphia, 1889. O. pp. 302. 65 *figs.*

Outline (An) of the growth of the locomotive engine, and a few early railway carriages. n.t.p. [Lond.? 1885?] F6. 6 *fold. plates.*

Contents:—1. To the year 1840.—2. From 1841 to 1884.—3. Types of American locomotives, from 1804 up to 1876.—4. Types of locomotive engines on the Stockton & Darlington & the North Eastern railway lines, from 1825 to 1848.—5. Types of American locomotives, 1876 to 1882.—6. Types on the Stockton & Darlington & North Eastern railway lines, from 1848 to 1885.

Pambour, F. M. G. de. A new theory of the steam engine, and the mode of calculation by means of it, of the effective power of every kind of steam engine. Lond., 1838. O. pp. 58. P. 35.

—— Théorie des machines à vapeur; ouvrage destiné à prouver l'inexactitude des méthodes en usage pour évaluer les effets ou les proportions des machines à vapeur, et à y substituer une série de formules analytiques propres à déterminer la vitesse d'une machine. 3e éd. Liége, 1847. sq. Q. pp. (2) + v-xvi + 416.

—— Traité théorique et pratique des machines locomotives; ouvrage destiné à faire connaître le mode de construction, le jeu des ces machines et leur emploi pour le transport des fardeaux; suivi d'un appendice contenant l'exposé des dépenses de ces machines pour le halage des fardeaux sur les chemins de fer. Paris, 1835. nar. O. pp. xxiv + 407 + (1). 4 *fold. plates.*

—— *Same, English.* A practical treatise on locomotive engines upon railways; a work intended to show the construction, the mode of acting, and the effect of those engines in conveying heavy loads; to which is added an appendix, showing the expense of conveying goods, by locomotive engines, on railroads. Lond., 1836. O. pp. (2) + v-xxxi + 365. 4 *fold. plates.*

—— *Same.* Philadelphia, 1836. O. pp. xvi + 17–304. 4 *fold. plates.*

—— *Same.* 2d ed. Lond., 1840. O. pp. (2) + v-xlviii + 583. 5 *fold. plates.*

Partington, C. F. An historical and descriptive account of the steam engine; comprising a general view of the various modes of employing elastic vapour as a prime mover in mechanics; with an appendix of patents and parliamentary papers connected with the subject. Lond., 1822. O. pp. (2) + v-xvi + 187 + 90. 6 *figs.*, 8 *fold. plates.*

—— *Same.* 2d ed., corrected and enlarged. Lond., 1826. O. pp. (2) + v-xiv + (2) + 300. 25 *figs.*, 9 *fold. plates.*

—— *Same.* 3d ed., corrected and enlarged: A popular and descriptive account of the steam engine; comprising a general view of the various modes of employing elastic vapour as a prime mover in mechanics; and on steam-navigation; with an appendix of patents and parliamentary papers connected with that subject. Lond., 1836. O. pp. (1) + v-xvi + 330. 35 *figs.*, 15 *fold. plates.*
Lacking plates no. 4, 5, 6, 10, 11, 13.

Petzholdt, A. Die Locomotive der Gegenwart und die Principien ihrer Construction, an den Objecten der Wiener Weltausstellung, 1873. Braunschweig, 1875. O. pp. xxiv + (1) + 399 + (1). 74 *figs.*, 5 *fold. plates.*

Pezza, C. Alcune considerazioni intorno macchine aereobatiche ed alla direzione di esse. n.p., n.d. D. pp. 13. P. 71.

Piarron de Mondésir, G. Note sur la théorie de la locomotive sans foyer. Paris, 1875. O. pp. (2) + 5–19. P. 46.
"Extrait des *Annales des ponts et chaussées*, 1875, tome 10."

Piron, — De l'échappement des locomotives: analyses et extraits de l'ouvrage allemand *Das Locomotiven Blasrohr*, de M. Zeuner. n.t.p. [Paris, 1864.] nar. O. pp. 265–318. P. 36.

Poppe, J. H. M. Populärer Unterricht über Dampfmaschinen, über die Anwendung derselben zum Treiben anderer Maschinen, insbesondere auch über Dampfschiffe und Dampfwagen; nebst einer Geschichte des gesammten Dampfmaschinenwesens. Tübingen, 1826. nar. S. pp. viii + (1) + 234. 4 *fold. plates.*

Purdue University (*Lafayette, Ind.*) Locomotive testing at Purdue University. Lafayette, Ind., 1894. O. pp. (2) + 3–11 + (1). 4 *figs.*, 5 *plates.* P. 45.

Rankine, D. A popular exposition of the effects of forces applied to draught; with illustrations of the principles of action, and tables of the performances of horses and of locomotive engines on railways. Glasgow, Edinburgh and Lond., 1828. O. pp. (2) + 5–76. 1 *fold. plate.* P. 46.

Reagan, H. C. *jr.* Locomotive mechanism and engineering. 1st ed. 1st thousand. N. Y., 1894. D. pp. x + 296. 144 *figs.*, 5 *plates.*

Recent locomotives: illustrations, with descriptions and specifications and details, of recent American and European locomotives, reprinted from the *Railroad gazette*. N.Y., 1883. F5. pp. (4) + 46 + (2). 28 *figs.*, 79 *plates*, 5 *fold. plates.*

Reed, W. W. Reed's head light for locomotive engineers and machinists; comprising such information as necessary to give a general knowledge of the calculation and construction of the American locomotive engine: practical instructions to manage the locomotive. Paterson, N. J. 1874. D. pp. 189. 14 *figs.*, 1 *plate.*

Reid, H. The steam-engine; a popular description of the construction and action of that engine: with a sketch of its history, and of the laws of heat and pneumatics. 2d ed., revised and enlarged. Edinburgh, Glasgow, 1840. S. pp. xvi + 254. 43 *figs.*

Reynolds, M. Locomotive engine driving; a practical manual for engineers in charge of locomotive engines. 8th ed. Lond., 1888. D. (2) + v-xiii + 258. *frontisp. port.*, 39 *figs.*

—— The model locomotive engineer, fireman and engine-boy; comprising a historical notice of the pioneer locomotive engines and their inventors, with a project for the establishment of

certificates of qualification in the running service of railways. London, 1879. D. pp. (2) + v-xii + 256. *frontisp. port.*, 71 *figs.*

Richard, G. La chaudière locomotive et son outillage. Paris, 1886. F. pp. (2) + v-xxxvi + 744. 1092 *figs*, and *Atlas*, sq. F., *of* 38 *fold. plates.*

—— *and* **Baclé, L.** Manuel du mécanicien conducteur de locomotives. Paris, 1881. O. pp. (2) + v-xxxii + 551 + (1). 365 *figs.*, and *Atlas*, sq. Q., *of* 10 *fold. plates.*

Roper, S. Hand-book of the locomotive, including the construction, running and management of locomotive engines and boilers. 14th ed., revised. Philadelphia, 1890. T. pp. xv + (1) + 17-324. *frontisp. port.*, 41 *cts.*

—— Roper's instructions and suggestions for engineers and firemen who wish to take charge of any class of steam engines or boilers, stationary, locomotive or marine. 2d ed., revised. Philadelphia, 1894. T. pp. x + 11-66. 2 *cts.*

Sauvage, É. La machine locomotive; manuel pratique donnant la description des organes et du fonctionnement de la locomotive à l'usage des mécaniciens et des chauffeurs. 2e éd. Paris, 1894. D. pp. (3) + vii-xvi + 374. 284 *figs.*

Schlumberger, A. *and* **Koechlin, E.** Description de la première locomotive avec chaudière tubulaire, construite par M. Seguin aîné, pour le chemin de fer de Lyon à Saint Étienne en 1828. Extrait du rapport à la Société industrielle de Mulhouse. Lyon, 1889. nar. Q. pp. (2) + 5-42.

Bd. with the next following.

Seguin, — *aîné.* Mémoire sur un nouveau système de moteur, fonctionna toujours avec la même vapeur à laquelle on restitue à chaque coup de piston la chaleur qu' elle a perdue en produisant l'effet mécanique. Lyon, 1886. nar. Q. pp. (2) + 5-25. 3 *figs.*

Sinclair, A. Locomotive engine running and management; a treatise on locomotive engines. 2d ed. N. Y., 1885. D. pp. (2) + v-xviii + 390. 38 *figs.*, *frontisp. plate.*

—— *Same.* 18th ed., carefully revised and enlarged. N. Y., 1891. D. pp. xliv + 416. 46 *figs.*, 9 *plates*, 2 *fold. plates.*

—— *Same.* 20th ed., carefully revised and enlarged. N. Y., 1893. D. pp. xliv + 416. 67 *figs.*, 2 *fold. plates.*

Smith, F. C. The locomotive engineer's "torch." N.Y., 1880. S. pp. (4) + 59. 7 *figs.*

Stretton, C. E. The locomotive engine and its development; a popular treatise on the gradual improvements made in railway engines between 1803 and 1893. 2d ed., revised and enlarged. Lond., 1893. D. pp. (2) + v-x + 204. 88 *figs.*, 7 *fold. plates.*

Stuart, R. A descriptive history of the steam engine. 2d ed. Lond., 1824. O. pp. (9) + 228. 48 *figs.*

Templeton, W. The engineer's commonplace book of practical reference, consisting of practical rules and tables adapted to land, marine and locomotive steam engines. Lond., 1839. D. pp. (6) + 9-166. 5 *figs.*, 4 *fold. plates.*

—— *Same.* 2d ed. Lond., 1841. S. pp. (6) + 9-164. 5 *figs.*, 4 *fold. plates.*

—— The locomotive engine popularly explained and illustrated by designs, to which are added rules and tables for ascertaining its amount of useful effect, resistance. Lond., 1841. D. pp. viii + 9-100. 2 *fold. plates.*

—— *Same.* 2d ed., revised by an eminent civil engineer. Lond., 1848. D. pp. (7) + 9-106. 3 *fold. plates.*

Thouvenot, C. Notice sur une machine locomotive à fortes rampes de grande puissance. Saint-Nicholas près Nancy, 1865. nar. O. pp. 15. 1 *fold. plate.* P. 46.

Tredgold, T. The steam engine; comprising an account of its invention and progressive improvement, with an investigation of its principles, and the proportions of its parts for efficiency and strength. Lond., 1827. sq. Q. pp. xix + (1) + 370. 29 *figs.*, 20 *plates.*

—— The steam engine: its invention and progressive improvement; an investigation of its principles, and its application to navigation, manufactures and railways. New ed., revised and edited by W. S. B. Woolhouse. Lond., 1838. sq. F. pp. (2) + v-xix + (1) + 500 + 250. *frontisp. port.*, 94 *figs* and *Atlas*, sq. F., *of* 117 *plates.*

United States—*Treasury Department.* Steam-engines: letter from the Secretary of the Treasury, transmitting information in relation to steam engines. Dec. 13, 1838. n.t.p. [Washington, 1838.] O. pp. 416. (25th Congress, 3d session, House doc. 21.)

Veritas Vincit, *pseud.* Railway locomotive management; a series of letters. Lond., 1847. O. pp. iv + 232.

Villarceau, Y. Théorie de la stabilité des machines locomotives en mouvement. Paris, 1852. O. pp. (3) + 152. 4 *figs.*, 1 *fold. table.*

"Extrait des *Mémoires et comptes rendus des travaux de la Société des Ingénieurs civils*, janvier à juin, 1851."

Vuillemin, — Note sur le service des machines Engerth modifiées, et des mêmes machines découplées, sur le Chemin de fer de l'Est. n.t.p. [Paris, 1860.] nar. O. pp. 2. P. 36.

"Extrait des *Annales des mines*, tome 17, 1860."

Walker, J., *and others.* Report to the directors of the Liverpool and Manchester railway, on the comparative merits of locomotive and fixed

engines, as a moving power; by James Walker. Observations on the comparative merits of locomotive and fixed engines as applied to railways; by Robert Stephenson and Joseph Locke. An account of the Liverpool and Manchester railway; by Henry Booth. Philadelphia, 1831. O. pp. (1) + 206. 3 *plates*, 2 *fold. plates.*

Woods, A. T. Compound locomotives. 2d ed., revised and enlarged by David Leonard Barnes. Chicago, 1893. O. pp. xiv + 330. 173 *figs.*

a. Boilers, Fuel, Steam.

Armstrong, R. An essay on the boilers of steam engines, their calculation, construction, and management, with a view to the saving of fuel. New ed., enlarged and improved. Lond., 1839. O. pp. (2) + v–xvi + 264. 23 *figs.*

Borodine, A. Recherches expérimentales sur l'emploi des enveloppes de vapeur et du fonctionnement compound dans les locomotives effectuées sur les chemins de fer Sud-Ouest russes. Paris, 1887. Q. pp. 85. 3 *fold. plates*, 5 *fold. tables.* P. 36.
Cover title.

Commines de Marsilly, — *and* **Chobrzinski, —** De la substitution de la houille au coke dans les locomotives. Paris, 1856. O. pp. 30. 1 *fold. plate.* P. 46.
"Extrait des *Annales des mines*, tome 9."

—— Deuxième note sur l'emploi de la houille dans les locomotives. n.t.p. [Paris, 1856.] O. pp. 9. P. 46.
"Extrait des *Annales des mines*, tome 10."

France—*Ministère de l'Agriculture, du Commerce et des Travaux Publics.* Rapport sur l'emploi de la houille dans les machines locomotives et sur les machines à foyer fumivore du système Tenbrinck. Paris, 1862. O. pp. (2) + 75. 2 *fold. plates.*

Franklin Institute (*Philadelphia*). Report of the committee on the explosions of steam-boilers. Phila., 1836. 2 pts. nar. O. pp. iv + 3–84 + 2. 6 *figs.*, 6 *plates;* pp. 48. 6 *figs.* P. 45.

Great Britain—*Railway Department of the Board of Trade.* Two reports of an inspecting-officer on the explosion of boilers of locomotive engines, one of which occurred at the Gloucester station of the Great Western railway, the 7th February, 1855, and at the Greenock station of the Caledonian railway, on the 5th of April, 1855. Presented by command, June, 1855. Lond., 1855. F. pp. (1) + 61–67. 2 *figs.*

Jeanneney, P. Calculs sur la sortie de vapeur dans les machines locomotives. Paris, 1841. O. pp. (1) + 197. 1 *fold. table*, 7 *fold. plates.*

Lönholdt, W. Locomotiv und Kessel-Feuerungen mit Sturzflamme und Pendelstab-Korbrost. Berlin, 1891. O. pp. 14 + (2). 1 *fold. plate.*

Marié, G. Étude comparée des régulateurs de vitesse, de pression, de température et des régulateurs de toutes sortes. Paris, 1879. O. pp. 99. 2 *fold. plates.*
"Extrait des *Annales des mines*, novembre-décembre, 1878." Cover title.

—— Les progrès futurs de la locomotive au point de vue de l'économie de combustible. Paris, [1881.] Q. pp. 24. M. 4.
"Extrait de la *Revue générale des chemins de fer*, juillet 1881."

—— Les régulateurs de vitesse. Paris, 1887. O. pp. (2) + 5–78. 2 *fold. plates.*
"Extrait des *Annales des mines*, septembre-octobre 1887."

Panoux, F. Notes sur l'utilisation de la vapeur dans les machines locomotives. Paris, n.d. sq. Q. pp. 8. 1 *fold. plate.*
Cover title.

Pechar, J. Die Lokomotiv-Feuerbüchse für Rauchverzehrung und Brennstoff-Ersparniss mit besonderer Berücksichtigung des systems Nepilly. Wien, 1884. O. pp. 95. 52 *figs.*, 1 *fold. table.* P. 36.
"Sonder-Abdruck aus *Glaser's Annalen für Gewerbe & Bauwesen.* Bd. 14."

Ricour, — Notice sur le tube d'inversion ou la machine locomotive transformée en générateur de chaleur pour produire l'arrêt des trains; avec une introduction et un appendice en réponse au mémoire de M. Le Chatelier. Paris, 1869. O. pp. (3) + xv + 84. 4 *figs.*, 1 *fold. plate.*

—— Rapport sur les inconvénients des freins ordinaires et sur l'emploi régulier de la contre-vapeur pour modérer la vitesse ou produire l'arrêt des trains. Paris, 1867. O. pp. 71. 3 *fold. plates.*
"Extrait des *Annales des mines*, tome 10, 1866."

—— Tube d'inversion; critique, scientifique et historique. Paris, 1870. O. pp. (2) + 5–44 + (1).

Zeuner, G. Traité des distributions par tiroirs dans les machines à vapeur fixes et les locomotives; traduit sur la troisième édition allemande, par A. Debize et E. Mérijot. Paris, 1869. O. pp. (12) + 260. 54 *figs.*, 6 *fold. plates.*

IV. LUBRICATION.

Cory's force feed lubricator, for oiling all journals, eccentrics and links while the engine is running full speed. Troy, N. Y., [1894?] obl. S. pp. (4). 1 *fig.* P. 88.

Grossmann, J. Die Schmiermittel: Methoden zu ihrer Untersuchung und Werthbestimmung. Wiesbaden, 1894. O. pp. viii + 186. 25 *figs.*
"Im Anschluss an das 1885 erschienene Werk: Die Schmiermittel und Lagermetalle für Lokomotiven, Eisenbahnwagen."

Hall, W. E. Car lubrication. N. Y., 1891. D. pp. (3) + 66. 11 *figs.*

Künkler, A. Die Maschinenschmierung, die Schmiermittel und ihre Untersuchung; nebst einem Anhang: "Die Lieferungsbedingungen der deutschen Eisenbahnen." Mannheim, 1893. O. pp. (1) + vi + 229 + (1) + 32 + vi + (1). 69 *figs.*

Runge, O. Die Prüfung und Untersuchung der Schmiermaterialien für Locomotiven und Eisenbahn-Wagen. Prag, 1892. Q. pp. 24. 9 *figs.*
"Sonderabdruck aus den *Technischen Blättern*, Vierteljahrschrift des *Deutschen Polytechnischen Vereines in Böhmen.*" 24 Jahrg., 1. & 2. Heft.

V. SHOPS.

Cooke, C. J. B., *and others.* Round the works of our great railways; by various authors. Lond., [1893.] D. pp. (4) + 232. 110 *illus.*
Contents:—**Cooke, C. J. B.** London and North-Western works at Crewe.—**Jones, C. H.** Midland railway works at Derby.—**Brickwell, A. J.** Great Northern railway works at Doncaster.—**Worsdell, W.** North-Eastern railway and its engines.—**Parker, A. P.** Great Eastern railway works at Stratford.—**Malan, A. H.** Great Western railway works at Swindon.—**Malan, A. H.** The old broad guage engines and their successors.—**Lockyer, A. E.** North British railway works at Cowlairs.

McDonnell, R. W. Through locomotive works; being advice to young mechanical engineers. Dublin & Lond., 1894. D. pp. (5) + 11-66.

Mathias, F. Les nouveaux ateliers de la compagnie du Chemin de fer du Nord à Hellemmes-Lille pour la réparation des locomotives & du matériel roulant. 1e pte. Paris, [1883.] F. pp. 77. 62 *figs.*, 1 *plate*, 15 *fold. plates.*
"Extrait du *Revue générale des chémins de fer*, janvier, juillet et novembre, 1882."

VI. SIGNALS.

Alsace-Lorraine, Chemins de fer Impériaux d'. Règlement pour les signaux. Berlin, 1883. S. pp. 75. 42 *figs.*

American practice in block signaling; with descriptions and drawings of the different systems in use on railroads in the United States. N. Y., 1891. sq. O. pp. (2) + 72 + 6. 56 *figs.*
Reprinted from *Railroad gazette.*

Appy, F. Block-system automatique; solution mécanique. [Nice, 1892.] F. pp. 11 + (1). 1 *fold. plate.*
Cover title.

Brame, E. *and* **Aguillon, L.** Note sur les mesures adoptées par les chemins de fer français pour la protection des trains circulant dans le même sens sur les lignes à double voie. Paris, 1883. nar. O. pp. 73. 2 *fold. plates.* P. 27.
"Extrait des *Annales des ponts et chaussées*, décembre, 1882."

—— Étude sur les signaux des chemins de fer français. 2e éd. Paris, 1883. O. pp. (2) + vi + 655, and *Atlas*, obl. Q., *of* 43 *fold. plates.*

[C., M.] Appareil de block-système pour voies double et simple adopté par la Compagnie Impériale des Chemins de fer Nicolas, Russie: système Rodary. Paris, 1889. Q. pp. 8. 1 *plate.* M. 12.
"Extrait de la *Revue générale des chemins de fer*, déc. 1889."

Clérault, F. Note sur l'emploi des électro-sémaphores de MM. Lartigue, Tesse et Prudhomme pour la réalisation du block-system. Paris, 1877. O. pp. 63. 2 *fold. plates.* P. 27.
"Extrait des *Annales des ponts et chaussées*, 1877, 2e sem., tome 14."

Dumont, G. *and* **Baignères, G.** Signaux et application de l'électricité aux chemins de fer. Paris, 1893. Q. pp. (3) + 3-92 + (3). 12 *figs.*, and *Atlas*, sq. F., *of* 3 *plates*, 12 *fold. plates.* (Les chemins de fer à l'Exposition universelle de 1889.)
"Extrait de la *Revue technique de l'Exposition universelle* de 1889."

Germany. Signalordnung für die Eisenbahnen Deutschlands, vom 30. November 1885. Berlin, 1886. S. pp. (2) + 6-57. 43 *figs.*

—— *Same.* 8e Auflage. Berlin, 1886. O. pp. 57. 43 *figs.* P. 27.

Heurteau, E. Rapport sur les divers systèmes de signaux en usage et l'application des appareils d'enclanchement pour la protection des bifurcations. Paris, 1880. nar. O. pp. 45. 2 *fold. plates.* P. 27.
"Extrait des *Annales des mines*, juillet-août, 1880."

Hornbostel, M. *Ritter* **von.** Zur Einführung des Blocksystemes auf der Wiener Stadtbahn. Wien, 1884. O. pp. (3) + 106. 6 *fold. plates.*

Johnson Railroad Signal Company. Catalogue of interlocking and railroad signaling appliances. Rahway, N. J., (copyrighted, 1889). sq. O. pp. 140. 54 *plates.*

—— Railroad signaling in all its branches: reference book. [N. Y., 1894.] nar. D. pp. 241. 109 *plates.*

Kecker, G. Vergleichende Studien über Eisenbahn-Signalwesen unter besonderer Berücksichtigung der deutschen, englischen, französischen und belgischen Signal-Einrichtungen. Wiesbaden, 1883. O. pp. (5) + 5-84.

Langdon, W. D. The application of electricity to railway working. Lond., 1877. S. pp. xv + 315 + (1). 142 *figs.*, 5 *fold. plates.*
Contents:—Speaking telegraphs.—Block signalling.—Miscellaneous appliances.

Lartigue, H. Note sur les électro-sémaphores pour le block-system, leur application sur les lignes à double et à simple voie: système Lartigue, Tesse et Prud'homme. Paris, 1877. O. pp. 32. 1 *fold. plate.* P. 27.
"Extrait des *Mémoires de la Société des Ingénieurs civils.*"

Lazarus, J. Das Eisenbahn-Signalwesen auf

der Pariser Weltausstellung, 1890. Wien, 1890. sq. F. pp. 17. 44 *figs.*, 1 *plate*, 1 *fold. plate.*
"Separatabdruck aus der *Wochenschrift des österr. Ingenieur- und Architekten- Vereines*, Nr. 48, 50, 1889, und Nr. 4, 7, 9, 12, 13, 25, 28, und 30, 1890."

Metzger, C. Étude sur le block-system à distance pour l'exploitation des chemins de fer; controleur automatique de la marche des trains, controleur des cloches électriques, controleur automatique des signaux du block-system à distance. Paris, 1887. Q. pp. (2) + 5–50 + (6). 2 *plates*, 3 *fold. plates.* M. 14.

Rapier, R. C. On the fixed signals of railways. Lond., 1874. O. pp. 110 + (1). 11 *figs.*, 6 *fold. plates*, 2 *fold. tables.*
"Excerpt *Minutes of Proceedings of the Institution of Civil Engineers*, vol. 38, session, 1873-74."
"F. Ransome with the author's kind regards."

Sauvage, É. Le système anglais des signaux de chemins de fer. Paris, 1893. nar. O. pp. (2) + 5–96. 5 *figs.*, 5 *fold. plates.* P. 61.
"Extrait des *Annales des mines*, mars, 1893."

Schneebeli, — Die electrische Signalscheibe für Eisenbahnen. Zürich, [1875.] O. pp. 6. 1 *fold. plate.* P. 27.
"Separat-Abdruck aus der *Eisenbahn*, Bd. 3. no. 8."

Tobler, A. Mittheilungen über einige von der Firma Siemens & Halske auf der Frankfurter Ausstellung 1891 ausgestellte Gegenstande aus dem Gebiete der Telegraphie, Telephonie und des elektrischen Eisenbahnsignalwesens. Juni 1892. Berlin, [1892.] Q. pp. 40. 36 *figs.*, 1 *fold. plate.*

Tyer & Company. Tyer's patent train signalling telegraphs. 5th ed. Lond., [1874.] D. pp. 96. 20 *figs.*, 3 *fold. plates*, 2 *fold. tables.*

Wilson, G. On colour-blindness in relation to the danger attending the present system of railway and marine coloured signals. Edinburgh, 1855. nar. D. pp. (4) + 33. 8 *figs.* P. 27.

VII. WHEELS AND AXLES.

Dircks, H. Account of a patent improved metallic railway wheel with wood-faced tyre [*sic.*] Liverpool, 1840. O. pp. (1) + 4–8. 5 *figs.* P. 46.
Sir John Rennie's copy.

New York Railroad Club. Report of proceedings of the New York Railroad Club, formerly Master Car Builder's Club, Feb. 16. N. Y., 1888. O. pp. 3–29. P. 5.
Subject for discussion "Car wheels and axles: fitting of wheel to axles and guarantee of wheels."

Nollau, — Sur l'application des contre-poids aux roues motrices des machines locomotives. n.t.p. [Paris, 1860.] nar. O. pp. 28–34. 1 *fold. plate.* P. 36.
"Extrait des *Annales des mines*, tome 17, 1860. Previously published in the *Eisenbahn Zeitung*, 1848."

Verein Deutscher Eisenbahn-Verwaltungen. Freie Lenkachsen für Zug- Geschwindigkeiten bis 90 km. in der Stunde und für Wagen mit und ohne Bremsen. Berlin, 1891. F. pp. 10 + (1). 1 *fig.*, 76 *plates.*

—— Die Vereins- Lenkachsen. 2e unveränderte Auflage. Berlin, 1891. F. pp. 22. 12 *figs.*, 1 *plate.*

Volkmar, W. Neuere Versuche der Reichs-Eisenbahnen in Elsass- Lothringen über das Verhalten freier Lenkachsen. Wiesbaden, 1892. sq. F. pp. 8. 12 *plates*, 1 *fold. plate.*
"Beilage zum *Organ für die Fortschritte des Eisenbahnwesens*, Jahrgang 1892."

Worms de Romilly, — Note sur un système de roues employées pour une locomotive routière. n.t.p. [Paris, 1868.] O. pp. 15. 1 *plate.* P. 46.
"Extrait des *Annales des mines*, tome 14, 1868."

VIII. SPECIAL EQUIPMENT.

Bucyrus Steam Shovel & Dredge Company. Catalogue of steam shovels and steam dredges. Toledo, Ohio, 1892. obl. S. pp. (40). 15 *plates.* P. 38.

Harris, R. L. The railroad ferry steamer "Solano." N. Y., 1890. O. pp. (12). 3 *plates*, 5 *fold. plates.* P. 93.
"Extracted from *Transactions of the American Society of Civil Engineers*, vol. 22. April, 1890. pp. 247-258.

Hartwich, É. Description du bac du chemin de fer Rhénan sur le Rhin à Rheinhausen, près de Duisburg; traduit par M. Müntz. Paris, 1872. O. pp. (2) + 5-24. 3 *fold. plates.* P. 76.

Kochs, W. E. Improved method of transferring railway trains to and from ferry boats and floating vessels. Lond., 1872. sq. Q. pp. 3. 1 *fold. plate.*

Leslie Brothers Manufacturing Company. "The rotary," America's famous snow plow; its improvements and leading features illustrated and described. Paterson, N. J., 1893. D. pp. 32. 12 *cts.* P. 37.

Vulcan Iron Works Company. Catalogue, part 1: steam shovels. 4th ed. South Milwaukee, Wis., [1892.] obl. Tt. pp. 46. 14 *figs.* P. 38.

Operation.

Ackerman, W. K. Notes on railway management. N. Y., 1884. O. pp. (16). P. 5.
Extracted from *North American Review*, vol. 139, Dec., 1884. pp. 531-546.

Albert, — Die Anstellungen im Eisenbahn-Dienst; Handbuch für Unter-offiziere, welche sich dem Eisenbahnfach zu widmen beabsichtigen. Berlin, 1884. O. pp. (4) + 7-59.

Belfast and Northern Counties Railway (*Ireland*). [A collection of 332 pieces of stationery in use by the company.] [Belfast, 189–] *Album* F⁶.

—— Rules and regulations for the guidance of the officers and servants. Belfast, 1861. S. pp. 120.

Biglia, F. Di alcune questioni relative all' esercizio delle ferrovie. n.t.p. [1867–69.] 2 vols. bd. in 1. O. pp. 132. 4 *fold. plates*; pp. 119. 5 *fold. plates.*

Contents:—**1.** Locomotive. Freni.—**2.** Segnali. Ferrovia sotterranea di Londra.

Bousson, — Note sur les resultats pratiques des différents modes de traction et d'exploitation successivement employés sur les anciennes lignes de Rhône et Loire. Paris, 1863. O. pp. 70. P. 15.

"Extrait des *Annales des ponts et chaussées*, 1er semestre, 1863."

Brosius, J. *and* **Koch, R.** Die Schule für den äusseren Eisenbahn-Betrieb: Handbuch für Eisenbahnbeamte und Studirende technischer Anstalten. In Ergänzung ihrer "Schule des Locomotivführers." 3. Theil (Schluss). Wiesbaden, 1883. D. pp. (3) + vii–xvi + 627–1152. 342 *figs.*, 2 *plates.*

Contents:—Bahnoberbau, Signalwesen, Stationsdienst, &c.

—— *Same.* 2e, umgearbeitete und verbesserte Auflage. Neue Ausgabe: Der äussere Eisenbahn-Betrieb. Wiesbaden, 1893. 4 vols. bd. in 2. D. pp. xiv + (1) + 259. 278 *figs.*; pp. xvi + 322. 265 *figs.*, 5 *fold. plates;* pp. xviii + 309. 375 *figs.*; pp. xxii + 411. 169 *figs.*

Contents:—**1.** Vorkenntnisse für den äusseren Eisenbahn-Betrieb: Zeichnenkunde, Arithmetic, [&c.]—**2.** Die Eisenbahn-Betriebsmittel: Locomotiven und ihre Leistungsfähigkeit.—**3.** Bau und Unterhaltung der Eisenbahnen.—**4.** Der Eisenbahn-Zugförderungsdienst: Signaldienst, Stationsdienst, [&c.]

Brotherhood of Railroad Trainmen. Rates of pay and regulations governing employes in train and yard service on the principal railroads of the United States, Canada and Mexico; collected by S. E. Wilkinson and W. A. Sheahan. Galesburg, Ill., 1892. O. pp. 192.

—— *Same.* Supplement no. 1. Galesburg, Ill., 1893. O. pp. 23.

—— *Same.* Supplement no. 2. Galesburg, Ill., 1893. O. pp. 34.

Cape of Good Hope—*Railway Department.* Rules and regulations to be observed by all persons in the service of the Cape government railways. 1893. Cape Town, 1893. T. pp. (3) + vii–liii + 212.

Chester and Holyhead Railway (*England*). Rules and regulations for the conduct of the traffic and for the guidance of the officers and men. Revised and corrected to Feb., 1853. Lond., 1853. S. pp. (4) + 7–90 + (1).

Debauve, A. Manuel du commissaire de surveillance administrative des chemins de fer. Paris, 1880. Tt. pp. (2) + 422. 1 *fold. table.*

"Extrait du *Dictionnaire administratif des travaux publics.*"

Dublin and Belfast Junction Railway (*Ireland*). General instructions and regulations for the executive departments. Dublin, 1859. S. 102 + (1).

Dublin and Drogheda Railway (*Ireland*). Regulations for the observance of all the company's servants employed in the executive department. Dublin, 1844. S. pp. 71.

East Lancashire Railway (*England*). Bye-laws, rules and regulations to be observed by the officers and men. Bury, Oct., 1850. Lond., 1850. S. pp. (3) + 7–90.

—— *Same.* Bury, Oct., 1854. Blackburn, 1854. S. pp. (3) + 7–88 + (1).

—— General regulations applicable to all servants. n.t.p. [Blackburn, printed, 1854.] S. pp. (1) + 7–88 + (1).

Eastern Counties Railway (*England*). Rules and regulations. Sept. 12, 1854. Stratford, 1857. S. pp. 187.

Findlay, G. The working and management of an English railway. Lond., 1889. D. pp. (6) + 270. 28 *figs.*, 5 *plates*, 5 *fold. plates.*

—— *Same.* 3d. ed., revised and enlarged: popular ed. Lond., 1890. D. pp. (5) + 300. 20 *figs.*, 6 *plates*, 5 *fold. plates.*

—— *Same.* 4th ed., revised and enlarged. Lond., 1891. D. pp. (6) + 354. 19 *figs.*, 8 *plates*, 7 *fold. plates.*

Flamache, A., *and others.* Traité d'exploitation des chemins de fer. Bruxelles, 1885–89; Liége, 1892. 3 vols. Q. pp. (2) + xix + 5–345 + 2. 47 *figs.*, 23 *fold. plates;* pp. (3) + vii–xv + 5–320. 109 *figs.*, 39 *fold. plates;* pp. (2) + v–viii + 178. 18 *figs.*, 24 *fold. plates.*

Contents:—**1.** La route. La voie: constitution, établissement, entretien de la voie.—Les appareils de la voie: constitution, pose des appareils.—**2.** Les signaux, signalisation, des signaux considérés comme appareils.—Les stations.—**3.** Le matériel de transport: le train, la caisse.

Vol. 1. "par A. Flamache et A. Huberti." Vol. 2 & 3. "par A. Flamache, A. Huberti, et A. Stévart."

Frank, E. Der Betrieb auf den englischen Bahnen. Wien, Pest, Leipzig, 1886. O. pp. (2) + 91 + (1). 1 *plate*, 5 *fold. plates.*

Gecius, G. Bestimmungen über die Tagegelder, Reise- und Umzugskosten der Beamten der preussischen Staats-Eisenbahnverwaltung und der bei Ausführung von Staats-Eisenbahnbauten beschäftigten Beamten und Hülfsarbeiter. 2e, umgearbeitete und bereicherte Auflage. Nordhausen, 1887. O. pp. (3) + vi + 210.

Germany. Bahnordung für deutsche Eisenbahnen untergeordneter Bedeutung. Berlin, 1886. S. pp. (2) + 5–24. 1 *fig.*

—— *Same.* 14e Auflage. Berlin, 1892. O. pp. 20. 1 *fold. plate.*

—— Bahnordnung für die Nebeneisenbahnen Deutschlands, vom 5. Juli 1892. Berlin, 1892. S. pp. 32. 4 *figs.*

—— *Same.* 16e Auflage. Berlin, 1892. O. pp. (2) + 5–28 + (4). 4 *figs.*

—— Bahnpolizei-Reglement für die Eisenbahnen Deutschlands vom 30. November 1885. Berlin, 1886. S. pp. (2) + 5–43. 2 *figs.*

—— Bestimmungen über die Befähigung von Bahnpolizei-Beamten und Lokomotivführern. Berlin, 1886. S. pp. (2) + 5–19.

—— *Same.* 7e Auflage. Berlin, 1886. D. pp. 16.

—— Bestimmungen über die Befähigung von Eisenbahnbetriebsbeamten, vom 5. Juli 1892. Berlin, 1892. Q. pp. (2) + 5–15.

—— Betriebsordnung für die Haupteisenbahnen Deutschlands, vom 5. Juli 1892. Berlin, 1892. S. pp. 48. 2 *figs.*

—— *Same.* 16e Auflage. Berlin, 1892. D. pp. (2) + 5–45 + (2). 2 *figs.*

—— Betriebs-Reglement für die Eisenbahnen Deutschlands; in der vom 1. April 1891 ab geltenden Fassung. 12e Auflage. Berlin, 1891. D. pp. 111. 1 *fold. table.*

—— Dienstvorschrift für die Einrichtung der Betriebs-, der Oberbau- und der Baumaterialienverwaltung, sowie für das Buch- und Rechnungswesen derselben nebst den dazu ergangenen Aenderungen. 2e Auflage. Berlin, 1885. sq. Q. pp. 85.

"Separat-Abdruck aus No. 22 des *Eisenbahn-Verordnungs-Blattes* pro 1880 und No. 15 pro 1885."

—— Prüfungsordnung für die mittleren und unteren Beamten der Staatseisenbahnverwaltung, nebst Bestimmungen über die Annahme von Zivilsupernumeraren für den Staatseisenbahndienst. 3e Auflage. Berlin, 1887. O. pp. 66.

—— *Same.* 4e Auflage. Berlin, 1894. O. pp. 73.

—— Sammlung von Bestimmungen für die Eisenbahnen Deutschlands. Berlin, 1887. S. pp. (3) + 7–25. 1 *plate.*

—— Sammlung von Eisenbahn-Verordnungen; herausgegeben von H. Lorenz. Berlin, [1894.] S. pp. (3) + 90 + (1).

—— Sammlung von gesetzlichen und reglementarischen Bestimmungen für die Eisenbahnen Deutschlands. 3e Auflage. Berlin, 1886. 7 vols. in 1. D. pp. 92. 1 *fold. table;* pp. 43. 3 *cts.;* pp. 16; pp. 57 + (1). 43 *cts.;* pp. 23 + (1). 3 *cts.;* pp. 20. 1 *fold. plate;* pp. 20.

Contents:—**1.** Betriebs-Reglement für die Eisenbahnen Deutschlands. 10e Auflage.—**2.** Bahnpolizei-Reglement für die Eisenbahnen Deutschlands. 12e Auflage.—**3.** Bestimmungen über die Befähigung von Bahnpolizeibeamten und Lokomotivführern. 7e Auflage.—**4.** Signal-Ordnung für die Eisenbahnen Deutschlands. 8e Auflage.—**5.** Normen für die Konstruction und Ausrüstung der Eisenbahnen Deutschlands. 3e Auflage.—**6.** Bahnordnung für deutsche Eisenbahnen untergeordneter Bedeutung. 9e Auflage.—**7.** Gesetz, betreffend die Beseitigung von Ansteckungsstoffen bei Viehbeförderungen auf Eisenbahnen. 2e Auflage.

—— Statistik der im Betriebe befindlichen Eisenbahnen Deutschlands. Betriebsjahr 1880/81–1890/91. Berlin, 1882–91. 11 vols. sq. F.

—— Uebersichtliche Zusammenstellung der wichtigsten Angaben der deutschen Eisenbahn-Statistik. Betriebsjahr 1880/81 und 1881/82–1891/92. Berlin, 1883–92. 11 vols. bd. in 3. F.

Goschler, L. Traité pratique de l'entretien et de l'exploitation des chemins de fer. 2e éd., considérablement augmentée. Paris, 1870–81. 5 vols. O. and 5 *Atlases* in 3. O. and obl. Q. pp. xxvii + 704. 262 *figs;* pp. xvi + 746 + (1). 285 *figs.;* pp. (3) + 602 + (1). 58 *figs.;* pp. (2) + xlviii + 496 + xii + 80. 14 *figs.;* pp. (2) + 659. 8 *figs.*, 4 *plates*, 1 *fold. table. Atlas* to vols 1 & 2: 35 *plates;* to vol. 3: 39 *plates;* to vols. 4 & 5: 61 *plates.*

Contents:—**1, 2.** Service de la voie.—**3.** Service de la locomotion: matériel de transport.—**4.** Service de la locomotion: traction.—**5.** Service de la locomotion: dépots, ateliers et direction du service.

—— *Same.* 3e éd., revue, corrigée et augmentée, par P. Guillemant: Traité pratique de l'établissement, de l'entretien & de l'exploitation des chemins de fer. Paris, 1894. 1 vol. bd. in 2. O. pp. (2) + iv + 351 + vi. 211 *figs.;* pp. (2) + 353–742 + iv + (1). *figs.* 212–323.

In progress.

Granger-Fabre, É. Manuel du commissaire de surveillance administrative des chemins de fer. Paris, 1882. D. pp. (2) + 303.

Great Britain—*Board of Trade.* General report in regard to the share and loan capital, traffic in passengers and goods and the working expenditure and net profits from railway working of the railway companies of the United Kingdom, for 1883–93. Lond., 1884–94. 11 vols. F.

Great Western Railway of Canada. Rules and regulations for the conduct of the traffic and for the guidance of the officers and servants. London, Ont., 1879. S. pp. x + 102.

Grundsätze für die Aufstellung der Etatsentwürfe für den Eisenbahn-Direktionsbezirk. Berlin, 1886. sq. Q. pp. 226.

"Separatabdruck aus dem *Eisenbahn-Verordnungsblatt* 1886. Nr. 5."

Haines, H. S. Efficient railroad management, advantages of an advisory board to the general manager. Chicago, 1881. O. pp. 18. 1 *fold. table.* P. 5.

"Reprinted from the *Railway review.*" Cover title.

Houlahan, P. H. Houlahan's railroad hand book: a treatise on railroading. Kansas City, Mo., [1891.] D. pp. 130. *frontisp. port.*

Italy — *Commissione d'Inchiesta sull' Esercizio delle Ferrovie Italiane.* Atti. Roma, 1879–81. 7 vols. sq. Q. pp. 535 + 24; (1) + 396 + 24; 508; xxvi + 474 + v; (1) + 475–1065 + v; (1) + 1067–1656 + vi; (2) + 5–320. 5 *fold charts.*

Contents:—**I. 1-3.** Verbali delle sedute pubbliche. (Milano, 10 aprile 1879-Sassari, 20 aprile 1880.)—**II. 1-3.** Riassunto delle risposte scritte ed orali.—**III.** Relazione.

—— Società italiana per le strade ferrate Meridionali: risposte al questionario della Commissione. Firenze, 1879. F. pp. xx + 488. 3 *fold. maps,* 8 *fold. tables,* 8 *fold. profiles.*

Ivatts, E. B. The handbook of railway station management; or, agent's manual. Liverpool. 1861. D. pp. (2) + 142.

"For private circulation only."

—— Railway management at stations. 2d ed. Lond., 1887. O. pp. (4) + 608.

Jacqmin, F. De l'exploitation des chemins de fer: leçons faites en 1867 a l'École impériale des ponts et chaussées. Paris, 1868. 2 vols. bd. in 1. O. pp. (2) + iv + 427; (2) + 384.

Jaeger, J. Die Eisenbahnkunde; zum Gebrauche für Eisenbahnbeamte und Gebildete aus allen Ständen sowie als Leitfaden für Vorlesungen. 2e, verbesserte und wesentlich vermehrte Auflage von des Verfassers Schrift: "Die Lehre von den Eisenbahnen." München & Leipzig, 1887. O. pp. viii + 155.

Jödicke, T. Hülfsbuch für den Verkehr mit den Eisenbahn-, Post- und Telegraphen-Anstalten des deutschen Reichs. Sondershausen, 1885. D. pp. 78 + (1).

Krönig, F. Die Verwaltung der preussischen Staats-Eisenbahnen. Breslau, 1891–92. 2 vols. bd. in 1. O. pp. viii + 358 + (1); viii + 486.

Lancashire and Yorkshire Railway (*England*). By-laws, rules & regulations to be observed by the officers and men. Jan., 1855. Manchester, 1855. T. pp. (3) + 9–108.

In vol. "Railway rules. 2."

Laplaiche, A. Manuel du candidat à l'emploi de commissaire de surveillance administrative des chemins de fer. 3e éd., revue et considérablement augmentée. Paris, Nancy, 1887. D. pp. (2) + v-xxxii + 713 + (1). 63 *figs.*

—— *Same.* Solutions des questions posées dans les différents concours depuis 1878. Paris, Nancy, 1890. D. pp. (3) + vii-xiii + 479. 68 *figs.*

Leitfäden für den Selbstunterricht und den Unterricht an Eisenbahnschulen, umfassend die Zweige des mittleren Staatseisenbahndienstes. Breslau, 1892–93. 8 vols. bd. in 2. O. pp. (7) + 91; (8) + 82; v + 85; (1) + 4 + iii–xii + 221; iv + 53; (2) + 45; (2) + v-x + 162; vii + 118.

Contents:—**1. Bobisch, E.** Das Etatswesen.—**2.** Die Verwaltung der Materialien, Inventarien, Drucksachen, Werkstätten und Gasanstalten.—**3. Braschke, J.** Die Zoll- und Steuer-Vorschriften.—**4. Bobisch, E.** Das Rechnungswesen.—**5. Krobisch, M.** Die Verkehrs-Kontrolen der preussichen Staats-Eisenbahnen.—**6. Müller, W.** Die Wagen-Benutzung.—**7. Bason, P.** Die Organization der Staatseisenbahnverwaltung.—**8. Namislo, F.** Der Abfertigungsdienst.

London and North Western Railway (*England*). Rules and regulations for the conduct of the traffic, and for the guidance of the officers and men. Corrected to June, 1852. Lond., 1852. S. pp. (3) + 7–122.

—— *Same.* Corrected and approved, 9th June, 1860. Lond., 1860. S. pp. (2) + 5–142.

—— *Same.* Corrected and approved, 18th May, 1867. Lond., [1867.] S. pp. (3) + 137.

London and South Western Railway (*England.*) Rules and regulations for the guidance of the officers and servants. Lond., 1853. S. pp. 111.

Maclean, J. L. The British railway system; a description of the work performed in the principal departments. Lond., Edinburgh, Glasgow, 1883. O. pp. (3) + 7–103.

Manchester and Leeds Railway (*England*). Regulations for the observance of all the company's servants employed in the executive department. Manchester, 1844. S. pp. 60.

Manchester, Sheffield and Lincolnshire Railway (*England*). General instructions to the officers and servants. Jan., 1863. Manchester, [1863.] S. pp. xv + 164. 1 *fold. plate.*

—— Rules and regulations to be observed by all officers and servants. Feb. 23rd. 1855. Manchester, 1855. S. pp. xvi + 9–119.

—— *Same.* Manchester, 1863. S. pp. xx + 122 + (2).

Mathieu, H. Manuel du commissaire de surveillance administrative des chemins de fer. Paris, 1884. D. pp. (7) +348. 87 *figs.*

Metter, H. Leitfaden zur Vorbereitung für das Examen zum Subalternbeamten im Staatseisenbahndienst. 2e, verbesserte Auflage. Stralsund, 1882. D. pp. (1) + iv + (1) + 142.

—— *Same.* Nachtrag. Stralsund, 1885. D. pp. 15.

Mid Wales Railway (*England*). Rules and regulations to be observed by all officers & servants. Llanidloes, 1st June, 1864. Lond., [1864.] S. pp. xi + 82 + (1).

—— *Same.* Brecon, Nov. 1, 1868. Oswestry, [1868.] S. pp. (2) + v-xi + 86 + (1).

Midland Railway (*England*). Rules and regulations for the guidance of the officers and men. Jan., 1855. Derby, [1855.] sq. T. pp. (4) + 94.

—— *Same.* Sept., 1876. Lond. and Derby, [1867.] sq. T. pp. (4) + 274.

Neath and Brecon Railway (*England*). General instructions for the use and guidance of station-masters, clerks, guards, police, porters, &c. June, 1874. Neath, 1874. S. pp. 97.

North-Eastern Railway (*England*). General rules, regulations, to be observed by the officers and persons employed by the company. Oct., 1854. Gateshead-on-Tyne, 1854. S. pp. (2) + 5–80.

Schillings, A. Traité pratique du service de l'exploitation des chemins de fer à l'usage des agents et employés, des personnes qui désirent entrer au service des chemins de fer. Paris, 1848. O. pp. (2) + 172.

Southern Pacific Company. [A collection of 740 pieces of stationery in use by the company.] [San Francisco, 189–] *Album* F⁶.

Switzerland. Schweizerische Eisenbahn-Statistik fur das Jahr 1868–1887. [*French title:*] Statistique des chemins de fer suisses. Bern, 1874–89. 15 vols. F.
Vol. 2. "für die Jahre 1868-73"; vol. 3. für 1873; vol. 4. "für die Jahre 1874-1876."

Tesch, J. Organisation der Staats-Eisenbahn-Verwaltung. Berlin, 1886. D. pp. (2) + 53.

—— Die Prüfung zum Betriebs-Sekretär und Eisenbahn-Sekretär der Staats-Eisenbahnen. Berlin, 1888. 2 vols. O. pp. x + 396; pp. viii + 624.
Contents:—1. Katechismus für die Prüfungen zum Betriebs-Sekretär und Eisenbahn-Sekretär der Staats-Eisenbahnen. 2e, umgearbeitete und vermehrte Auflage.—2. Die schriftliche Prüfung zum Betriebs-Sekretär und Eisenbahn-Sekretär der Staats-Eisenbahnen.

—— Die schriftliche Prüfung zum Betriebs-Sekretär und Eisenbahn-Sekretär der Staats-Eisenbahnen. Berlin, 1888. O. pp. (1) + v-viii + 396.

Ulster Railway (*Ireland*). Rules and regulations for the guidance of the officers and servants. Dublin, 1861. S. pp. (2) + 5–77.

Verein Deutscher Eisenbahn-Verwaltungen. Statistische Nachrichten von den Eisenbahnen, für 1850–1891. Stettin, Berlin, 1851–93. 42 vols. bd. in 13. nar. F. and F¹.
1850-77, "Deutsche Eisenbahn-Statistik."

I. ACCIDENTS.

Adams, C. F. *jr.* Notes on railroad accidents. N. Y., 1879. D. pp. vi + 280.

Braet, G. Les accidents de chemins de fer. Bruxelles, 1883. O. pp. (2) + 5–77. P. 25.
"Extrait de la *Revue des questions scientifiques*, octobre, 1883."

Brown, H. Railway accidents, railway amalgamation and railway management, in a series of letters to the *Morning chronicle* by "A Gloucestershire M. P." Lond., 1853. O. pp. 45. P. 25.
Letters dated from Dec. 1852-Feb. 1853.

Case (The) of the railways considered, especially with reference to railway accidents and the operation of Lord Campbell's act; by a shareholder. Lond., Liverpool, 1852. O. pp. 50. P. 25.

Clause, E. Administration des chemins de fer de l' état: guide en cas d' accidents ou, Aide-mémoire à l'usage, en général, des agents attachés aux services de l' exploitation, de la traction et des voies et travaux. Lierre, [1887.] D. pp. (2) + 5–206.

Eisenbahn-Unglück (Das) am Faulenberge bei Würzburg am 1. Juli 1886; eine genaue Schilderung der furchtbaren Katastrophe nebst Abbildung der Unglücksstätte. 4e Auflage. Würzburg, 1886. O. pp. 16. 1 *fold. plate.* P. 25.

France—*Ministère de l'Agriculture, du Commerce et des Travaux Publics.* Accidents de chemins de fer; recapitulation annuelle. 1862. [Paris, 1863.] nar. O. pp. 375–378. P. 75.

Ganzoni, A. Ueber das Bundesgesetz betreffend die Haftpflicht der Eisenbahn- und Dampfschifffahrt-Unternehmungen bei Tödtungen und Verletzungen vom 1. Juli 1875. Inaugural-Dissertation. Zürich, 1879. O. pp. (4) + 7–92 + (1). P. 25.

Great Britain—*Board of Trade.* Report of the committee appointed on the 9th April, 1894, for the purpose of considering the returns of railway accidents and casualties, compiled by the Board of Trade; and reporting whether any improvement is possible in the shape in which the information is supplied by the railway companies, and tabulated by the Board of Trade. Lond., 1895. F. pp. 27.

—— — *House of Commons.* Report from the select committee [appointed to inquire into the law and the administration of the law of compensation for accidents as applied to railway companies; and whether any and what precautions ought to be adopted by railway companies with a view to prevent accidents] on railway companies, with proceedings of the committee, minutes of evidence, and appendix. Ordered to be printed, 7 July, 1870. [Lond., 1870.] F. pp. xvi + 235.

—— Report from the select committee on railways [appointed to consider whether it is desirable to vest a discretionary power of issuing regulations for the prevention of accidents upon railways, in the Board of Trade]; together with the minutes of evidence. Ordered printed, 18th June, 1841. [Lond., 1841.] F. pp. x + 210.

—— — *House of Lords.* Report from the select committee on the regulation of railways (prevention of accidents) bill; with proceedings of the committee, minutes of evidence, and appendix. Ordered printed, 27th March, 1873. [Lond., 1873.] F. pp. xi + 201. 2 *fold. plates.*

—— Return to an order for copy of Board of Trade circular to railway companies, dated November 1873, and the correspondence which followed thereon: copy of correspondence between the Board of Trade and Lancashire and Yorkshire railway, with reference to legal proceedings in consequence of default of return of accidents; also, copy of correspondence between the Board of Trade and the Chamber of Commerce of Edinburgh on the subject of certain returns relative to railway accidents. Ordered printed, 17th April, 1874. [Lond., 1874.] F. pp. (2) + 71.

—— — *Parliament*—9 & 10 *Vict.* An act for compensating the families of persons killed by accidents. [Royal assent,] 26th August, 1846. n.t.p. [Lond., 1871.] F. pp. 877–878.
Lord Campbell's Act.

—— — 27 & 28 *Vict.* An act to amend the act 9 & 10 Vict. for compensating the families of persons killed by accident. [Royal assent,] 29th July, 1864. n.t.p. [Lond., 1864.] F. pp. 353–354.

—— — *Railway Department of the Board of Trade.* Copy of report by Colonel Rich, of his inquiry into the circumstances which attended the accident on 4th March, 1890, at Carlisle (Citadel) station. Lond., 1890. F. pp. 26.

—— Copy of the report by Major Marindin, on the inquiry into the circumstances attending the collision on the 14th October, 1892, near Auchnashellach, on the Highland railway; and of the correspondence between the Board of Trade and the railway thereupon. Lond., 1893. F. pp. 9.

—— Copy of the report by Major Marindin, upon the circumstances attending the fatal accident on the 16th October, 1891, at Weyhill station, on the Midland and South-Western Junction railway; and upon the hours of duty of the company's servants. Lond., 1892. F. pp. 35.

—— General report upon the accidents on the railways of the United Kingdom during 1870–93. Lond., 1871–94. 24 vols. F.

—— Highland railway: report by Major Marindin, upon the circumstances attending the accident, on the 27th April, 1894, at Dunphail station. Lond., 1894. F. pp. 7.

—— London, Brighton and South Coast: copy of report by Major-general Hutchinson, of his inquiry into the circumstances which attended the accident on the 1st May, 1891, at Portland road bridge near Norwood junction station; with copy of relative correspondence thereon. Lond., 1891. F. pp. 10.

—— Report of Colonel Rich, upon the accident, on the 3rd June, 1884, between Downton and Breamore stations, on the London and South-Western, and correspondence thereon. Lond., 1884. F. pp. (1) + 15. 1 *plate*, 2 *fold. plates.*

—— Report of the circumstances attending the collision near Holylake station on the Seacombe, Holylake and Deeside railway, on 7th February, 1887; with a communication addressed to the company by the Board of Trade, upon the subject. Lond., 1888. F. pp. 8.

—— The report of the court of inquiry, into the circumstances attending the accident on the Great Western near Shipton-on-Cherwell, on the 24th December, 1874. Lond., 1875. F. pp. 38. 3 *fold. plates.*

—— The report of the court of inquiry, into the circumstances attending the accident on the London and North-Western at Wigan, on the 2nd August, 1873. Lond., 1874. F. pp. 26. 2 *fold. plates.*

—— The report of the court of inquiry, into the circumstances attending the collision on the Caledonian railway at McAndrew's siding near Motherwell junction, on the 30th September, 1873. Lond., 1874. F. pp. 10.

—— The report of the court of inquiry, into the circumstances attending the collision on the Great Eastern near Norwich, on the 10th September, 1874. Lond., 1874. F. pp. 22. 1 *fold. plate.*

—— The report of the court of inquiry, into the circumstances attending the collision on the Great Northern, at Retford on the 23rd August, 1873. Lond., 1874. F. pp. (5).

—— The report of the court of inquiry, into the circumstances attending the collision on the North British railway, at Bo'ness junction, on the 27th January, 1874. Lond., 1874. F. pp. 10. 2 *fold. plates.*

—— The report of the court of inquiry into the circumstances attending the collision on the North British railway, at Maryhill, on the 4th October, 1873. Lond., 1874. F. pp. 5. 1 *fold. plate.*

—— The report of the court of inquiry into the circumstances attending the collision on the North-Eastern, at Durham station, on the 6th November, 1873. Lond., 1874. F. pp. 10. 1 *fold. plate.*

—— The report of the court of inquiry into the circumstances attending the collision on the London and North-Western, at Euxton junction, on the 20th February, 1874. Lond., 1874. F. pp. (1) + 12. 1 *fold. plate.*

—— The report of the court of inquiry into the circumstances attending the collision on the Somerset and Dorset, near Radstock, on the 7th August, 1876. Lond., 1876. F. pp. 42. 1 *plate*, 2 *fold. plates.*

—— The report of the court of inquiry into the circumstances attending the double collision on the Great Northern at Abbotts Ripton, on the 21st January, 1876. Lond., 1876. F. pp. 37. 2 *fold. plates.*

—— Report upon the accidents on railways, during 1853–58. Lond., 1854–59. 6 pts. F.
1853: "Reports upon the principal accidents which have occurred on railways during the year."

—— Reports of the inspecting officers upon certain accidents which have occurred on railways, 1854–94. Presented by command. Lond., 1854–94. 181 pts. F.
After 1877: "Returns of accidents and casualties as reported by the railway companies, with Reports of the inspecting officers."

—— Return of the number and nature of the accidents and injuries to life and limb which have occurred on all the railways open for traffic in England and Wales, Scotland, and Ireland respectively, from 1st Jan. to 30th July, 1856; 1st Jan. to 30th July, 1859; 1860–1863. Lond., 1856–64. 7 pts. F.
Two pts. for 1860.

—— Tay bridge: copy of letter to railway companies. n.t.p. [Lond., 1880.] F. p. (1).

—— Tay bridge: minute of the Board of Trade [in regard to the inspection of the first bridge by Major-general Hutchinson.] n.t.p. [Lond.,1880.] F. pp. 3.

—— Tay bridge disaster: report of the court of inquiry, and report of Mr. Rothery, upon the circumstances attending the fall of a portion of the Tay bridge on the 28th December, 1879. Lond., 1880. F. pp. (2) + 5–49.

—— *Same.* Appendix to the reports of the court, and evidence. Lond., 1880. F. pp. iv + 569 + lxiv. 6 *plates*, 4 *fold. plates.*

—— — *Royal Commission on Railway Accidents.* Analysis and abstract of the evidence. Lond., 1877. F. pp. 74.

—— Minutes of evidence. Lond., 1877. F. pp. viii + 1154.

—— Report. Lond., 1877. F. pp. 172.

Grison, G. Les accidents de chemins de fer: grandes catastrophes, négligences et fautes des compagnies, causes des accidents, moyens de les éviter, ce qu'on a fait, ce qu'il faudrait faire. Paris, 1882. D. pp. (2) + 5-281.

Hall, J. A. The causes of railroad accidents. N. Y., 1895. O. pp. (7).
Extracted from the *Engineering magazine*, July 1895. pp. 720-726.

Huish, M. Railway accidents: their cause and means of prevention. Lond., 1852. D. pp. 35. P. 25.
"Excerpt *Minutes of Proceedings of the Institution of Civil Engineers*, vol. 11."

Kedzie, R. C. Waste of human life: a communication relative to the wrecking of the Pacific express near Jackson, Mich., Oct. 9, 1879. Lansing, Mich., 1880. O. pp. (6).
Extracted from "Seventh annual report of the Secretary of the State Board of Health of Michigan," for the year nding sept. 30, 1879. pp. 97-102.

Lodge, H. C. A perilous business and the remedy. N. Y., 1892. O. pp. (7).
Extracted from the *North American review*, vol. 154. Feb. 1892. pp. 189-195.

Manchester and Leeds Railway. Accidents on railways (No. 2.) Manchester, 1840. O. pp. (2) + 5-42.

Manchester Statistical Society. Papers on the demoralization and injuries occasioned by the want of proper regulations of labourers engaged in the construction & working of railways; by John Robertson, Robert Rawlinson, Edwin Chadwick. Manchester, [18—] O. pp. iv + 5–51.

Neison, F. G. P. Analytical view of railway accidents. n.t.p. [Lond., 1853.] O. pp. 49. P. 25.
"From the *Journal of the Statistical Society of London*, Dec., 1853."

New Jersey — *Bureau of Statistics of Labor and Industries.* Eleventh annual report, for year ending Oct. 31st, 1888. Trenton, N. J., 1889. O.
Contents:—I. Railroad casualties, American and foreign, pp. 1-74.—II. Employers' liability for personal injuries to their employes, pp. 75-242.

New York (*State*) — *Senate.* Report of the committee appointed to examine and report the causes of railroad accidents, the means of preventing their recurrence. n.t.p. [Albany,1853.] O. pp. 156. P. 61.

—— Railway accident investigation by a special committee. n.t.p. [Albany, 1882.] O. pp. 482 + (2). 1 *fold. chart.*

Page, H. W. Railway injuries; with special reference to those of the back and nervous system, in their medico-legal and clinical aspect. N. Y., 1892. nar. O. pp. (2) + 5–157.
"Reprinted from *Wood's medical and surgical monographs.*"

Parkin, T. A letter to George Glyn on railway accidents, and other matters relative to railways, of great importance to the public. Lond., 1840. D. pp. 16. P. 83.

Prokov, F. W. Die Ursachen der meisten Eisenbahnunglücke und die Mittel zur Verhutung derselben. Charlottenburg, 1891. O. pp. 8.

Prout, H. G. Railroad accidents in the United States and England. N. Y., 1893. O. pp. (9).
Extracted from the *North American review*, vol. 157. Dec., 1893. pp. 707-715.

—— A year of railroad accidents. N. Y., 1892. O. pp. (13).
Extracted from the *North American review*, vol. 154. Feb., 1892. pp. 196-208.

Schmidt, C. A. Rettung der Eisenbahnpassagiere bei Ungluecksfällen. St. Petersburg, 1885. D. pp. 30 + (1). 21 *figs.* P. 25.

Turnbull, L. *and* **McRea, W. C.** Railroad accidents, and the means by which they may be prevented by the use of electro-magnetic safety apparatus. Philadelphia, 1854. D. pp. (6) + 13-63. P. 25.

Verein Deutscher Eisenbahn-Verwaltungen. Nachtrag pro 1874 und 1875–1883 zu der Statistik der Moralitäts-, Invaliditäts- und Morbilitäts-Verhältnisse. Im Auftrage des Vereins bearbeitet von G. Behm. Berlin, 1877–85. 9 vols. O. and Q.

—— Ueber Dienstunfähigkeits- und Sterbensverhältnisse. Im Auftrage des Vereins zu der Dienstunfähigkeits- und Sterbensstatistik desselben vom Jahre 1884–89 verfasst von H. Zimmermann. Berlin, 1886–91. 6 vols. bd. in 1. O.
After vol. 1. "Beiträge zur Theorie der Dienstunfähigkeits- und Sterbens-Statistik."
Vol. 5 and 6, "verfasst von August Zillmer."

Vose, G. L. Safety in railway travel. N. Y., 1882. O. pp. (12).
Extracted from the *North American review*, vol. 135. Oct., 1882. pp. 374-385.

Wädensweil - Einsiedeln Eisenbahn. Bericht und Anträge an die Generalversammlung der Aktionäre betreffend die Katastrophe vom 30 November 1876, und deren Folgen. Einsiedeln, 1877. O. pp. 16. P. 9.
Cover title.

With, E. Railroad accidents: their causes and the means of preventing them; by Emile With; with an introduction by Auguste Perdonnet. Translated, with an appendix, by G. Forrester Barstow. Boston, 1856. O. pp. xi + (1) + 152.

Worsfold, W. A special danger near switches on railroad tracks. Lansing, Mich., 1878. O. pp. (6). 2 *figs.*
Extracted from "Fifth annual report of the Secretary of the State Board of Health of Michigan," for the year ending Sept. 30, 1877. pp. 459-464.

Wrigley, T. Railway accidents, their cause and cure. Lond., 1871. O. pp. (2) + 5–56.
Presentation copy from the author.

II. ACCOUNTS, FINANCES, SUPPLIES.

East Lancashire Railway. Audit office: instructions to goods managers and clerks in charge of stations. Bury, 1849. O. pp. 12.

Fisher, J. A. Railway accounts and finance; an exposition of the principles and practice of railway accounting in all its branches. Lond., 1891. O. pp. xvi + 514.

Great Britain — *House of Lords.* First and second reports [third report] from the select committee on audit of railway accounts. Ordered printed, 11 June, [25 June,] 1849. [Lond.,1849.] 3 pts. bd. in 1 vol. F. pp. (1) + xvi + 294; (4) + 275–439; (1) + xx + (2) + 441–528 + 66.

Hardcastle, D. Railway audit; a plan for the audit of accounts in railway and other joint stock companies. Lond., 1850. nar. O. pp. 32. P. 42.

Harrison, J. T. On the statistics of railway income and expenditure, and their bearing on future railway policy and management. Lond., 1870. O. pp. 53. 3 *fold. plates.* P. 65.
"Excerpt *Minutes of Proceedings of the Institution of Civil Engineers*, vol. 29, session 1869-70."

Kirkman, M. M. Care of cash by agents and conductors; its collection, custody, use and transmission to the company's treasury. Chicago, 1889. D. pp. (7) + 9–183.

—— Division of railway expenses and earnings, and the limitation of accounts in connection therewith. Chicago, [1886.] O. pp. (4) + 7–76.

—— The freight way-bill: how it and other freight blanks may be amended, so as to surround the collections with needed safeguards. Chicago, 1882. O. pp. (4) + 7–28.

—— Hand book of railway expenditures; explaining in the form of specific rules, how the labor, material, fuel and other items of expenditure should be kept, and giving the various disbursement accounts of railroads and the details of each. Chicago, [1881.] D. pp. (6) + 111 + (61) + vii.

—— The handling of railway supplies; their purchase and disposition. Chicago, 1887. D. pp. (7) + 17–223.

—— *Same. Supplement:* Rules and regulations governing requisitions for railway material. Chicago, 1888. O. pp. 17 + (1).

—— How to collect railway revenue without loss: the railway officer's hand book and traveling auditor's manual. Chicago, [1885.] D. pp. viii + 9–324.

—— Railway disbursements and the accounts into which they are naturally divided. N. Y., 1877. D. pp. viii + 264.

—— Railway expenditures: their extent, object and economy; treating of the elements of cost of constructing and operating railroads, the relation they sustain to other industries, the principles that govern the organization of the forces of railway companies, the relative cost of construction and operation, and an exposition of the best and most economical methods of keeping the account of railway expenditures. Chicago, [1880.] 2 vols. D. pp. (4) + 7–370 + xxxiv; pp. (2) + 7–370 + (58) + xv.

—— Railway revenue; a treatise on the organization of railroads and the collection of railway receipts. 2d ed., enlarged and revised. N. Y., 1879. D. pp. (4) + vii–xv + 595.

—— The track accounts of railroads and how they should be kept. 2d ed. [Chicago, 1889.] D. pp. 50 + (2).

—— Treatise on the method of paying large bodies of men; how railroad employes should be

paid; a paymasters' manual. Chicago, [1886.] O. pp. 78.

Kosub, H. *and* **Kosub, G.** Der Bureau-, Kassen- und Kalkulatur-Dienst bei Eisenbahn-Neubauten; Handbuch für Eisenbahn-Beamte. Berlin, 1884. O. pp. viii + 211.

Mahl, W. Headings of accounts and classification of operating and other expenses. N. Y., 1882. O. pp. 12.

Palkh, J. Kostenberechnung von Eisenbahn-Ausrüstungen mit Angabe der Bestimmungsorte, Stückzahl, Preise und Bezugsquellen der erforderlichen Gegenstände. Wien, 1884. O. pp. (3) + 96.

[Pennington, W.] Suggestions as to the best mode of auditing railway accounts. [Manchester? 1850.] O. pp. (3). P. 42.

Reitler, M. A. Der Einnahmen-Verrechnungs- und Revisionsdienst der Eisenbahnen. Wien, Pest, Leipzig, 1886. O. pp. (7) + 295 + (1). (Bibliothek des Eisenbahnwesens. VII.)

Schmidt, L. Die Verwaltung der Eisenbahnen und die Buchführung im Eisenbahnbetrieb. Stuttgart, [1873.] O. pp. (6) + 199.

Southern Pacific Company. Classification of disbursement accounts. Revised May 1, 1891. [San Francisco, 1891.] O. pp. 89.

—— Rules regarding accounts, reports and remittances. San Francisco, 1888. O. pp. 96.

III. EMPLOYEES.

Barnard, W. T. The relations of railway managers and employes. Baltimore, 1886. O. pp. (1) + 42. P. 96.

Braun, F. Die Pensionirung der Staatsbeamten und die Fürsorge für die Hinterbliebenen derselben, unter Berücksichtigung der neuesten gesetzlichen Vorschriften uber die Fürsorge für Beamte in Folge von Betriebsunfällen. 4°, sehr vermehrte Auflage. Berlin, 1889. O. vi + 149.

Brydges, C. J. Railway superannuation; an examination of the scheme of the General Railway Association for providing superannuation allowances to worn out and disabled railway employés. Lond., 1852. O. pp. 16. P. 49.

Depew, C. M. Address before the 27th annual convention of the Brotherhood of Locomotive Engineers, at Pittsburgh, October 16, 1890. n.p., n.d. O. pp. 12.

—— Address [delivered at the 10th anniversary of the Railroad Branch of the Young Men's Christian Association of New York City,] at the Grand Central depot, January 4th, 1887. [N. Y., 1887.] O. pp. 8.

Dufour, E. *and* **Armand, E.** Les agents des chemins de fer et les employés de l'industrie privée: étude sociale comparative. Paris, 1893. D. pp. (6) + 146.

Eddy, W. L'employé de chemins de fer; sa condition en France et en Angleterre. Paris, 1883. O. pp. (2) + iii + 56. P. 49.

Eichhorn, R. Die weissen Sklaven der Wiener Tramway-Gesellschaft. 2e, vermehrte und verbesserte Auflage. Wien, 1885. O. pp. 63. P. 49.

"Separatabdruck aus Baron Vogelsang's *Monatsschrift für christliche Socialreform.*"

Great Britain—*House of Commons.* A bill to make provision with regar to the tenure of houses owned by railway companies and occupied by their servants, and to confer on the Board of Trade certain powers of regulating the hours of labour of railway servants. Ordered printed, 23 January, 1891. Lond., [1891.] F. pp. 2.

In vol. "Great Britain. Railway servants' hours of labor. Reports and returns, 1888-92."

—— Report from the select committee on railway labourers; with the minutes of evidence. Ordered printed, 28 July, 1846. [Lond., 1846.] F. pp. xiv + 202 + 54. 5 *plates.*

In vol. "Great Britain. Railway pamphlets. Operation. 1."

—— Report from the select committee on railway servants (hours of labour); with the proceedings of the committee, minutes of evidence, appendix. Ordered printed, 3 June, 1892. Lond., [1892.] F. pp. lx + 267.

—— Special report from the select committee on railway servants (hours of labour); with the proceedings of the committee, minutes of evidence, and appendix. Ordered printed, 24 March, 1892. Lond., [1892.] F. pp. x + 112.

—— — *Railway Department of the Board of Trade.* Railway employés hours of duty; return to an order of the House of Lords, of weekly-paid servants who were, during the months of July, 1886, and January, 1887, on duty on the railways of the United Kingdom for more than twelve hours at a time, or who, after being on duty more than twelve hours, were allowed to resume work with less than eight hours' rest. Ordered printed, 5th March, 1888. [Lond., 1888.] F. pp. (1) + 43.

—— *Same:* during the months of September, 1887, and March, 1888. Ordered printed, 28th March, 1889. Lond., [1889.] F. pp. 46.

—— *Same:* during the months of September, 1889, and March, 1890; Dec., 1890; Dec., 1891. Lond., 1890-92. 3 vols. F. pp. 51; 103; 99.

"Return in pursuance of Section 4 of the Regulation of railways act, 1889."

—— *Same:* Return in pursuance of section 4 of the Regulation of railways act, 1889, of certain classes of weekly-paid servants who were on one

or more occasions during the month of December, 1890; December, 1891; on duty on the railways of the United Kingdom for more than ten hours at a time; or who, after being on duty more than ten hours, were allowed to resume work with less than eight hours' rest. Lond., 1891-92. 2 vols. F. pp. 99; 95.

—— Railway servants (hours of labour): inspectors' reports; return to an order of the House of Commons, dated 26 April, 1892, for return of all instances in which the inspectors of the Board of Trade, in their reports on railway accidents inquired into by them since and including the year 1884, have represented that the hours of any of the railway servants on duty on the occasion of such accidents have been unduly long; stating the name, date, and nature of such accidents, and the railway or railways on which they occurred, and giving in full the passages in such reports relating to such unduly long hours. Ordered printed, 10 June, 1892. Lond., [1892.] F. pp. 15.

—— Railway servants (hours of labour): report respecting the proceedings of the Board of Trade under the Railway regulation act, 1893, during the year ended 27th July, 1894. Ordered printed, 22 August, 1894. Lond., [1894.] F. pp. 18.

—— Return of the number of persons employed by each of the railway companies of the United Kingdom on 31 March, 1884, classified according to the nature of the work performed by them. Ordered printed, 27 June, 1884. Lond., [1884.] F. pp. 11.
In vol. "Great Britain. Railway pamphlets. Operation. 1."

Hadley, A. T. Remedies for railway troubles. N. Y., 1888. O. pp. (7). P. 96.
Extracted from *The Forum*, vol. 5. June, 1888, pp. 429-435. Advocates better conditions of employment for railroad employes.

Jacqmin, F. Railroad employes in France; an account of the organization of railroad service on a French railroad; with the position, privileges and pay of men of different grades, and the full regulations of provident and pension funds. N.Y., 1877. O. pp. 37. P. 49.
"Translated from the French."

Legal (The) rights of capital, labor, and the public. Chicago, 1893. O. pp. 77. P. 96.
Charges and opinions of judges on "Organized labor and the railways."

Lindner, — Die Pensions-Institute für die Beamten und deren Wittwen und Waisen bei den sechs grossen Eisenbahn-Gesellschaften und bei der Staats-Eisenbahn-Verwaltung in Frankreich. Berlin, 1883. O. pp. vii + 122.
"Litteratur." p. vii.

McNeill, G. E., *editor.* The labor movement: the problem of to-day. Boston, N.Y., 1887. O. pp. xx + 615 + (9). 15 *plates.*
Chap. 12. The rise of railroad organization; by P. M. Arthur.

Mills, W. F. The railway service; its exigencies, provisions, and requirements. Lond., 1867. D. pp. (2) + 5-141.

Mutual Guarantee Company which it is proposed to organize by railway men for the benefit of railway men. n.t.p. [Chicago, 1886.] D. pp. 28. P. 6.
Signed by M. M. Kirkman. Cover title.

Oulmont, — Note sur l'influence exercée par les chemins de fer sur la santé des employés. Paris, 1859. S. pp. (2) + 5-25. P. 49.

[Porter, H. H.] The relations of organized labor to the railroads, and the relations of the public to organized labor and the railroads. [Chicago, 1893.] O. pp. 8. P. 96.
Cover title.

Railroad Branch, Young Men's Christian Association of New York City. Rail road men: record of a year's work. N. Y., 1877. O. pp. 16. P. 6.
pp. 15-16, "Address of Cornelius Vanderbilt."

Schurz, C. Corporations, their employés, and the public. N. Y., 1884. O. pp. (19). P. 3.
Extracted from the *North American review*, vol. 138. Feb., 1884. pp. 101-119.

Souvenir (A) of the trans-continental excursion of railroad agents, 1870; by one of the party. Albany, 1871. O. pp. (2) + 3-92. 1 *plate.*

United States—*Department of Labor.* Fifth annual report. 1889: railroad labor. Washington, 1890. O. pp. 888. 1 *fold. map.*

Unter dem geflügelten Rad, oder, Humanität und Curszettel eine Lanze für die Angestellten der Eisenbahnen. Wien, 1885. O. pp. 28. P. 49.

a. Education, Libraries.

Baltimore and Ohio Employes' Free Circulating Library. Report on library [by W. T. Barnard.] n.t.p. [Baltimore, 1887.] O. pp. 15 + (3).

Barnard, W. T. Service report on technical education, with special reference to the Baltimore & Ohio railroad service. Oct. 1st, 1886. Baltimore, 1887. Q. pp. (3) + 168 + 70. 2 *diagrs.*

Leighton, G. B. Higher education in railway management. Boston, 1895. O. pp. (5).
Extracted from *The Harvard graduates' magazine*, vol. 3. June 1895. pp. 481-485.

Martin, H. N., *and others.* Lectures delivered to the employes of the Baltimore and Ohio railroad. Baltimore, 1882. O. pp. 98. 54 *figs.*
Contents:—**Martin, H. N.** How skulls and backbones are built.—**Sewall, H.** How we move.—**Sedgwick, W. T.** On fermentation.—**Brooks, W. K.** On some methods of locomotion in animals.
"This pamphlet is printed by Mr. Garrett [president B. & O.] for free distribution among the employes of the Baltimore and Ohio railroad."

Railroad Branch, Young Men's Christian Association of New York City. Catalogue of the library. N.Y., 1892. Q. pp. 121.

Russia. About the apparatus for demonstration made by the [technical railway] schools themselves. n.p., [1893.] Q. pp. 5.

—— Short account concerning technical railway schools in Russia. n.p., [1893.] Q. pp. 7.

—— Short account concerning the school for conductors of communication in the town of Vishny-Volotschok. n.p., [1893.] Q. pp. 5.

Southern Pacific Co's Employes' Library (*Tucson, Arizona*). Constitution and by-laws, 1885. Tucson, 1885. O. pp. 10.
In vol. "Southern Pacific. Pamphlets. 2."

Ulrich, F. Die Ausbildung der höheren Verwaltungsbeamten in Preussen und ihre Stellung in der Staatseisenbahnverwaltung. Berlin, 1893. O. pp. (2) + 62.

—— Stellung (Die) der höheren Techniker in der Staatseisenbahnverwaltung; von einem Fachmanne. Entgegnung auf die Schrift des Herrn Ulrich. Leipzig, 1893. O. pp. 31.

b. Hospitals, Relief Associations.

Atchison, Topeka and Santa Fé Hospital Association. First report to members; containing charter, by-laws, rules and regulations, financial statement as of July 1, 1891. October, 17, 1891. Topeka, 1891. O.

—— Annual report to members for the year ended June 30, 1892. Topeka, 1892. O.

Baernreither, J. M. English associations of working men. English ed.; translated by Alice Taylor, with a preface by J. M. Ludlow. Lond., 1889. O. pp. xv + 473.
"Railway company [friendly] societies," pp. 206-217.

Baltimore and Ohio Employes' Relief Association. 1st–8th annual report for the year ending April 30th, 1881–Sept. 30th, 1888. Baltimore, 1881–88. 8 vols. O.

—— Its relations to its members and to other insurance organizations; [by S. R. Barr, secretary.] n.t.p. [Baltimore, 1888?] O. pp. 20.

Baltimore and Ohio Railroad—*Relief Department.* 1st–4th annual report, covering the year ending Sept. 30th, 1889–June 30th, 1892. [Baltimore, 1889–92.] 4 vols. O.

—— Statement of receipts and disbursements for the month of February, 1894. [Baltimore, 1894.] broadside. F.

Central Pacific Railroad Hospital (*Sacramento, Cal.*). Condensed history and statement of the workings of the hospital. Sacramento, 1880. O. pp. 14 + (7).
This and three next following titles in vol. "Central Pacific. Pamphlets. 2."

—— Plan of hospital. 1870 and 1879. n.p., n.d. obl. O. pp. (1) + 4. 4 *plans.*
Lithographed.

—— Statement of the workings of the hospital for the year 1883. Sacramento, 1884. O.

Central and Southern Pacific Railroad Employees' Mutual Benefit Association. Proceedings of the third annual meeting, May 7, 1883. n.p., n.d. T.

Denver and Rio Grande Railroad *and* **Denver and Rio Grande Western Railway.** Instructions to surgeons and rules and regulations governing the collection and disbursement of the hospital funds. Denver, Col., March 31st, 1887. O.
Cover title: 3rd annual report of the hospital funds.

Home for Aged and Disabled Railroad Employes of the United States and Canada (*Chicago, Ill.*). Constitution and general rules; in effect on and after Jan. 1, 1895. [Chicago, 1895.] obl. T. pp. (32). P. 96.

—— [Prospectus.] n.t.p. [Chicago, 1894.] obl. T. pp. (16). P. 96.

Lancashire and Yorkshire Railway (*England*). Insurance society: book of rules and regulations. Manchester, 1853. S. pp. 11.

c. Strikes.

Carwardine, W. H. The Pullman strike. 4th ed. Chicago, 1894. D. pp. (3) + 7–126. *frontisp. port.*, 2 *cts.*

Chicago—*Civic Federation.* Congress on industrial conciliation and arbitration; arranged under the auspices of the Industrial committee of the Civic Federation: held at Chicago, Nov. 13 and 14, 1894. Chicago, [1895.] O. pp. 96.
"The prevention of railway strikes," by James Peabody; &c.

Fletcher, H. J. The railway war [Chicago strike, 1894.] Boston, 1894. O. pp. (8).
Extracted from the *Atlantic monthly*, vol. 74. Oct., 1894. pp. 534-541.

Headley, J. T. Pen and pencil sketches of the great riots: an illustrated history of the railroad and other great American riots. N. Y., 1882. D. pp. 560. 49 *plates.*

Jeans, J. S. Conciliation and arbitration in labour disputes; a historical sketch and brief statement of the present position of the question. Lond., 1894. D. pp. (2) + v–xiv + 194.

Mavor, J. The Scottish railway strike, 1891; a history and criticism. Edinburgh, 1891. D. pp. 66.

Missouri Pacific Railway. [Report of transactions relative to the strike of the Knights of Labor, on the Missouri Pacific, in 1886.] n.t.p. [N.Y., 1886.] O. pp. (1) + 52.

Nebraska—*State Board of Transportation.* Report to the Board upon the matter of the strike of the Brotherhoods of Locomotive Engineers and Firemen of the Burlington and Missouri River railroad in Nebraska. By O. P. Mason, secretary. Lincoln, Neb., 1888. O. pp. 19. P. 96.

Pennsylvania—*General Assembly.* Report of the committee appointed to investigate the railroad riots in July, 1877; read in the Senate and House of Representatives, May 23, 1878. Harrisburg, 1878. O. pp. (1) + 1000.

Pullman Palace Car Company. The strike at Pullman: statements of Geo. M. Pullman and T. H. Wickes before the U. S. Strike Commission; also published statements of the company during the continuation of the strike. n.t.p. [1894.] O. pp. 38. P. 96.

Salmons, C. H. The Burlington strike: its motives and methods, including the causes of the strike, remote and direct, and the relations to it of the organizations of Locomotive Engineers, Locomotive Firemen, Switchmen's M. A. A., and action taken by Order Brotherhood RR. Brakemen, Order Railway Conductors, and Knights of Labor. Aurora, Ill., 1889. O. pp. (9) + 7–480. 7 *cts.*, 16 *plates*, 13 *portraits.*

United States—*Strike Commission.* Report on the Chicago strike of June–July, 1894; with appendices containing testimony, proceedings, and recommendations. Washington, 1895. O. pp. (2) + v–liv + 681.

—— *Same.* Washington, 1895. O. pp. (2) + v–liv.

"The appendices referred to within are omitted from this edition."—*Cover.*

Voorhees, T. The Buffalo strike. N. Y., 1892. O. pp. (11).

Extracted from the *North American review*, vol. 155. Oct., 1892. pp. 407–417.

IV. INTERLINE RELATIONS.

Beaumont, G. D. B. Railway amalgamation by a scale. Lond., 1852. O. pp. 12. P. 42.

Map lacking.

Benson, R. The amalgamation of railway companies; or, the alternative of their purchase by the state considered. Lond., 1872. O. pp. 30. P. 65.

Colorado Railway Association, *and others.* Proceedings of the Colorado Railway Association, Western Colorado Railway Association, Utah Traffic Association, Colorado and Utah Common Points Association, and Colorado and Utah Bureau of Statistics; for the year 1887. [Denver, 1887.] O. pp. (90). P. 90.

Cover title.

Cooley, T. M. Popular and legal views of traffic pooling. Chicago, 1884. O. pp. 15. P. 3.

"Reprinted from the *Railway review*, April 26. 1884." Cover title.

Franqueville, C. de. Eisenbahn-Konkurrenz und Eisenbahn-Fusionen in England; Auszug aus dem Werke: *Du régime des travaux publics en Angleterre.* Uebersetzt von Victor Wilke, und herausgegeben von Wilhelm v. Nördling. Wien, 1875. O. pp. (2) + v–x + 75.

Great Britain—*Commissioners of Railways.* Return of all existing railway amalgamations and notices given this session for the amalgamations of railway companies, and a map, with colours, to distinguish the amalgamation lines. Ordered printed, 17 July, 1848. [Lond., 1848.] F. pp. 35. 2 *fold. maps.*

—— —*House of Commons*—1st-2nd report from the select committee on railways and canals amalgamation; with the minutes of evidence. Ordered printed, 8 April, 22 June, 1846. [Lond., 1846.] 2 vols. bd. in 1. F. pp. 7; viii + 116.

—— —*Parliament*—22 & 23 *Vict.* An act to enable railway companies to settle their differences with other companies by arbitration. [Royal assent,] 13th August, 1859. n.t.p. [Lond., 1878.] F. pp. 389–394.

—— —35 & 36 *Vict.* Report from the joint select committee of the House of Lords and the House of Commons on railway companies amalgamation; with the proceedings of the committee, minutes of evidence, and appendix. Ordered printed, 2nd August, 1872. [Lond., 1872.] F. pp. lxiv + 1027. 4 *fold. maps*, 12 *fold. pp.*

Huntington, C. P. A plea for railway consolidation. N. Y., 1891. O. pp. (11).

Extracted from the *North American review*, vol. 153. Sept., 1891. pp. 272–282.

Irish Railway Clearing House (*Dublin*). Regulations. [Dublin,] 1861. O.

Massachusetts—*Senate.* Report and bill regulating the use of rail-roads: [defining the relative rights and duties of rail-road corporations, and regulating the conditions of the inter-change of their business.] [Boston, 1839.] O. pp. 20. P. 1.

Railway Clearing House (*Boston*). The Railway clearing-house: a brief history of the institution established at Boston by the New England railroad companies; with such information in regard to the method of conducting its operations as may be of interest to railway managers. Boston, 1884. O. pp. 9.

In vol. "Railway clearing house. Pamphlets. 1."

Railway Clearing House (*London*). Extracts from the minutes of goods managers meetings. Lond., 1852. O. pp. (2) + 5–26.

—— General classification of goods by merchandise trains upon railways. 1st Jan., 1855,

April, 1856, Jan., 1880. n t.p. [Lond., 1855–80. 3 vols. O.

—— *Same.* List of alterations in, and additions to, the general classification of goods, which take effect from 1st January, 1869. Lond., 1869. O. pp. 100.

—— The origin and results of the clearing system, which is in operation on the narrow gauge railways, with tables of the through traffic in 1845. Lond., 1846. O. pp. 26.

—— Regulations as approved on 13th Sept., 1854., Jan., 1861, Jan., 1869, Jan., 1880. Lond., 1854–80. 4 vols. O.
1854 in vol. "Railway clearing house. Pamphlets. 1." "Private, and not for publication."

Railway Clearing House (*New York*). Railway clearing house: a system for the management of railway traffic between competing lines to and from competing points. N.Y., 1871. nar.O. pp. (2) + 5–16.

Trans-Continental Association. Agreement [28th Sept., 1883.] n.t.p. [San Francisco, 1883.] O. pp. 8. P. 90.

—— Agreement effective Jan. 1st, 1885. n.t.p. [San Francisco? 1885.] O. pp. 18. P. 90.
Cover title.

—— [Record of proceedings, 1885; Nov. 5, 1887, to Jan. 31, 1888; 1888–91. St. Louis, Mo., 1885–91.] 6 vols. bd. in 5. O.
Vol. for 1885 incomplete.

Trunk Line Association. Articles of association Feb. 20, 1889. N. Y., 1889. O. pp. iv + 5–19. P. 90.
Signed "Albert Fink, commissioner."

Walker, A. F. Railway associations. Chicago, 1890. O. pp. 24. P. 90.
"Reprinted from the *Railway review*, of Jan. 4, 1890."

V. MAINTENANCE OF WAY.

Huntington, W. S. The road-master's assistant and section-master's guide; a manual of reference for all having to do with the permanent way of American railroads; revised and enlarged by Charles Latimer. 6th ed. N. Y., 1881. S. pp. xv + 286. 50 *figs.*

Kindelan, J. The trackman's helper; revised and enlarged; a book of instruction for track foremen. 3d ed. Chicago, 1894. D. pp. xi + 314. 31 *figs.*

Parsons, W. B. Track: a complete manual of maintenance of way, according to the latest and best practice on leading American railroads. N. Y., 1886. Q. pp. vii + 111 + ii. 126 *figs.*

Williams, R. P. On the maintenance and renewal of permanent way. Lond.,1866. O. pp. 78. 3 *figs.*, 10 *fold. plates*, 17 *fold. tables.*
"Excerpt *Minutes of Proceedings of the Institution of Civil Engineers*, vol. 25. Session 1865–66."

VI. MILITARY SERVICE.

Aymonino, C. Considérations militaires et stratégiques sur les chemins de fer italiens; traduit de l'Italien par G. Malifaud. 3e éd. Paris, 1889. nar. D. pp. (2) + 5–68. P. 26. (Bibliothèque d'art et d'histoire militaires. no. 2.)
"Publication de la *Revue du cercle militaire.*"

Becker, C. Der nächste Krieg und die deutschen Bahn-Verwaltungen. 2. Tausend. Hannover-Linden, 1893. O. pp. 62.

Bergère, C. Les chemins de fer et le service des étapes d'après les nouveaux règlements. Paris, 1886. O. pp. 24. P. 26.
"Extrait du *Journal des sciences militaires*, octobre, 1886."

Charié-Marsaines, — Mémoire sur les chemins de fer considérés au point de vue militaire. Paris, 1862. O. pp. 23. 1 *fold. map.* P. 26.
"Extrait des *Annales des ponts et chaussées*, tome 4, 1862." "A Monsieur Ludovic Vitet, souvenir d'amitié. C. M."

Emploi (De l') des chemins de fer en temps de guerre; traduit de l'Allemand. Paris, 1869. O. pp. (2) + 241. 1 *fold. plate.* P. 26.

Ferrarius, M. Die Eisenbahnen und die Kriegführung; eine politisch-militärische Studie. Hamburg,1890. O. pp.30. P.83. (Deutsche Zeit- und Streit-Fragen. Neue Folge. 5. Jahrg., Heft 66.)

—— Studien über die heutigen Eisenbahnen im Kriegsfalle. Wien, Pest, Leipzig, [1892.] O. pp. iv + (2) + 55.
"Literatur," p. (2).

Geerling, K. F. A. Geerling's Militäranwärter im Staats- und Privat-Eisenbahndienst. 2e Auflage. Berlin, W., 1890. O. pp. 114.

Germany. Militär-Transport-Ordnung für Eisenbahnen im Kriege. Berlin, 1887. sq. Q. pp. 74.
"Separatabdruck aus Nr. 6, des *Eisenbahn-Verordnungs-Blattes*, 1887."

Grandvallet, A. Les chemins de fer français au point de vue de la guerre. Paris, 1889. O. pp. (2) + 85. 1 *fold. map.*

—— La neutralité de la Belgique et les chemins de fer français, belges et allemands. Paris, 1889. O. pp. 11.
Bd. in vol. with preceding.

K., H. Das russische Eisenbahn-Netz zur deutschen Grenze in seiner Bedeutung für einen Krieg Russlands mit Deutschland. Hannover, 1885. O. pp. 29. 1 *fold. map.* P. 26.

Nieden, J., zur, *editor.* Der Eisenbahn-Transport verwundeter und erkrankter Krieger; nebst einem Anhange betreffend die Einrichtung von Pflegestätten im Kriege. 2e Auflage. Berlin, 1883. O. pp. (6) + 271. 91 *figs.*

Tyler, *Captain* **H. W.** Railways strategically considered. n.t.p. [Lond., 1864.] O. pp. (23). 2 *fold. maps.* P. 26.
Lecture delivered May 13, 1864.

Weber, M. M. *Freiherr* **von.** Our railway system viewed in reference to invasion, a translation of a memoir entitled, The training of railways for war, in time of peace. With an introduction and notes by Robert Mallet. Lond., 1871. O. pp. (3) + 110.

VII. TELEGRAPH AND ELECTRICAL APPLIANCES.

Abernethy, J. P. The modern service of commercial and railway telegraphy, in theory and practice; including the railway station and express service. 8th ed., revised and enlarged. St. Louis, Mo., 1894. O. pp. 424. 29 *figs.*

Anderson, J. A. The train wire; a discussion on train dispatching. Chicago, 1883. D. pp. iv + (1) + 7-76.

Bauer, R., Prasch, A. *and* **Wehr, O.** Die elektrischen Einrichtungen der Eisenbahnen: eine Anleitung zum Selbststudium der Telegraphen-, Telephon- und elektrischen Signal-Einrichtungen. Wien, Pest, Leipzig, 1893. O. pp. (2) + v-xxiv + 455. 275 *figs.*, 3 *fold. plates.*

Brossard de Corbigny, — Note sur les appareils de sécurité Leblanc et Loiseau. Paris, 1882. O. pp. (2) + 5-12. 1 *fold. plate.* P. 61.
"Extrait des *Annales des mines, septembre-octobre*, 1882."

Consolidated Railway Telegraph Company. Telegraphic communication between fixed stations and moving trains, under patents of Edison, Gilliland, Phelps, and Smith. N. Y., [1887.] obl. T. pp. 26. 6 *figs.*

Hassler, A. Der Staats- und Eisenbahn-Telegraph; ein Leitfaden für Post-, Telegraphen- und Eisenbahnbeamte. 2e Auflage. Stuttgart, 1891. O. pp. x + 216. 19 *fold. plates.*

Kohlfürst, L. Die elektrischen Einrichtungen der Eisenbahnen und das Signalwesen. Wien, Pest, Leipzig, 1883. D. pp. vii + (1) + 327. 130 *figs.* (Elektro-technische Bibliothek. Bd. 12.)

—— Die elektrischen Telegraphen und Signalmittel sowie die Sicherungs-, Kontroll- und Beleuchtungs-Einrichtungen für Eisenbahnen auf der Frankfurter internationalen elektrotechnischen Aufstellung 1891. Stuttgart, 1893. O. pp. vi + 268. 226 *figs.*

—— Die Fortentwicklung der elektrischen Eisenbahn-Einrichtungen. Wien, Pest, Leipzig, 1891. D. pp. viii + 296. 106 *figs.*

Kr"mer, J. Repetitorium der Mathematik und Elektricitäts-Lehre; für die Bedurfnisse der Eisenbahn-Praxis elementar behandelt. Wien, Pest, Leipzig, 1884. O. pp. xiv + (1) + 176. 127 *figs.* (Bibliothek des Eisenbahnwesens. IV.)

Leto, V. Apparecchi per la sicurezza dei treni viaggianti; con un' appendice sul sillabatropio. Palermo, 1891. O. pp. (2) + 26 + (1). 1 *plate*, 2 *fold. plates.* P. 23.

Prasch, A. Handbuch des Telegraphendienstes der Eisenbahnen. Wien, Pest, Leipzig, 1884. O. pp. xvi + 160. 117 *figs.*, 1 *fold. plate.* (Bibliothek des Eisenbahnwesens. III.)

Proske, L. Ausgeführte Central-Sicherungs-Anlagen auf den k. k. österreichischen Staatsbahnen. Vortrag gehalten am 13. Jänner 1885 im Club österreichischer Eisenbahn-Beamten. Wien, 1885. O. pp. 36. 6 *fold. plates.*
"Separat-Abdruck aus der *Oesterreichischen Eisenbahn-Zeitung*, Jahrgang, 1885."

Rodary, F. Applications de l'électricité aux chemins de fer; cours professé a l'École supérieure de télégraphie. Paris, 1886. O. pp. (2) + 5-107. 58 *figs.*

Schön, — Ueber die Sicherung des Eisenbahnverkehrs auf Bahnhöfen; Vortrag gehalten im Polytechnischen Verein zu München am 22. November, 1886. München, 1887. O. pp. (1) + 34. 60 *figs.* P. 23.

Schubert, E. Die Sicherungswerke im Eisenbahnbetriebe; Beschreibung und Anleitung zum Gebrauche der elektrischen Telegraphen, Läutewerke, Contact-Apparate, Block-Einrichtungen, Signal- und Weichenstellwerke. Wiesbaden, 1888. D. pp. (9) + 157. 173 *figs.*, 1 *fold. plate.*

Sécurité sur les voies ferrées; communications électriques permanentes des trains en marche entre eux et avec les gares; sur une même voie ou sur des voies différentes: systéme E. de Baillehache. Paris, 1878. O. pp. (1) + 17. 2 *fold. plates.* P. 24.
Cover title.

Tesch, J. Katechismus für die mündliche Prüfung zum Telegraphisten der Staats-Eisenbahnen. Berlin, 1890. D. pp. vi + 179.

—— *Same.* 2e Auflage. Berlin, 1894. D. pp. vi + 179. 40 *figs.*
6 pp. inserted between p. 76 and 77.

VIII. TRAFFIC.

Braun, F. K. Der Eisenbahn-Güter-Abfertigungsdienst: Leitfaden und Handbuch für Dienstanfänger der Eisenbahn-Verwaltung, Eisenbahn-Beamte, Spediteure, Geschaftsleute und sonstige Verkehrs-Interessenten. Elberfeld, [1893.] O. pp. 358.

Brosius, J. *and* **Koch, R.** Der Eisenbahnstations- und Zugförderungsdienst einschliesslich Wagen- und Betriebsmaschinendienst und Signalwesen; insbesondere für Bremser, Schaffner, Packmeister, [etc.] Wiesbaden, 1889. D. pp. xiii + 803-1152. 118 *figs.*, 6 *tables*, 2 *plates.*
"Sonderausgabe aus deren Handbuche: Die Schule für den äusseren Eisenbahnbetrieb."

Central Pacific Railroad. Rules and regulations for agents and conductors; Jan. 1, 1882. San Francisco, 1882. nar. S. pp. 28.
In vol. "Central Pacific. Pamphlets. 2." Cover title.

—— Rules for the government of the baggage department. Sacramento, 1872. D. pp. 14 + (6).
In same.

—— Statistics of passenger traffic, 1871–1882. [San Francisco, 1883?] O. pp. (2) + 5–41.
In same.

Chanute, O. The cost of railroad freight traffic. Chicago, 1885. O. pp. 16. P. 77.
"Reprinted from the *Railway review*, May 2-9, 1885."

Chapman, S. A comparative analysis of English railway passenger traffic, for the five years 1883–1887. Lond., 1889. O. pp. (2) + 5–31. 1 *fold. table.*

Émion, V. Manuel pratique ou traité de l'exploitation des chemins de fer; précédé d'une préface par Jules Favre. 2e partie: marchandises. Paris, 1865. D. pp. vii + 459. (Bibliothèque des professions industrielles et agricoles. Série C, no. 21.)

Fenten, W. Anleitung für den Stations- und Expeditions-Dienst zur Veranschlagung der erforderlichen Arbeitskräfte und Materialien. Wiesbaden, 1886. D. pp. viii + 115. 1 *plate.*

Foerster, C. Der Expeditions-Dienst: praktisches Handbuch für deutsche Eisenbahnbeamte und Spediteure. Nordhausen, n.d. T. pp. 168.

Germany. Verkehrs-Ordnung für die Eisenbahnen Deutschlands, vom 15. November 1892. 13e Auflage. Berlin, 1892. O. pp. v + 124 + 56. 2 *fold. tables.*

Great Britain — *Parliament* — 29 & 30 *Vict.* An act for the amendment of the law with respect to the carriage and deposit of dangerous goods. [Royal assent,] 6th August, 1866. n.t.p. [Lond., 1866.] F. pp. 629–631.

Guttmann, F. Der Gütertransport auf den Eisenbahnen Englands. Bromberg, 1876. O. pp. (3) + 116 + (20). 30 *fold. tables.*

Kascheike, L. Das gesammte Examen für Stationsvorsteher der Eisenbahnen Deutschlands. Königsberg, 1887. O. pp. 192.

Kirkman, M. M. The baggage, parcel and mail traffic of railroads; explaining its practical working and the principles and philosophy that underlie its operation. Chicago, [1881.] D. pp. xx + 417.

—— Hand book of passenger traffic and accounts. Chicago, 1890. D. pp. 170 + (29) + vii.

Knorz, A. Der Rathgeber im Eisenbahngüter-Verkehr; praktisches Handbuch zum Gebrauch fur Spediteure, Fabrikanten, Kaufleute, Eisenbahnbeamte. Leipzig, 1886. O. pp. iv + 268 + (1). 1 *fold. map.*

Koch, W. Handbuch für den Eisenbahn-Güter-Verkehr. 22e, umgearbeitete und vermehrte Auflage. Berlin, 1889–91. 2 vols. O. pp. xvi + 484 + 8; 336 + 16.
Contents:—**1.** Eisenbahn-Stations-Verzeichniss der dem Vereine Deutscher Eisenbahn-Verwaltungen angehörigen Eisenbahnen Europa's.—**2.** Ortsverzeichniss.

Leighton, G. B. Notes on St. Louis passenger traffic. St. Louis, 1894. O. pp. 31. 2 *charts*, 2 *maps.*
"A paper read before the St. Louis Commercial Club, Jan. 20, 1894."

Michel, J. Les gares de triage pour le classement des wagons de marchandises. Paris, 1877. O. pp. (2) + 5–47. 1 *fold. plate.* P. 24.
"Extrait des *Annales des ponts et chaussées*, 1877. 1er sem., t. 13."

Oliver, H. *and* **Airey, J.** Hand-book and appendix of all the stations, junctions, sidings, collieries on the railways in the United Kingdom, showing their exact position and the counties in which situated. New revised and enlarged ed. Lond., 1873. O. pp. (8) + 164 + 12.

—— *Same.* 7th ed. Lond., 1892. sq. O. pp. (7) + 350 + 40.

—— *Same.* 7th ed. Lond., 1894. sq. O. pp. (7) + 350 + 68.

Prussia—*Ministerium der öffentlichen Arbeiten.* Statistik der Güterbewegung auf deutschen Eisenbahnen nach Verkehrsbezirken geordnet. 1.–11. Jahrgang. Berlin, 1883–94. 48 vols. bd. in 24. F4.

Schroeter, G. Die Schule des Eisenbahndienstes; ein Handbuch für die Prüfung zum Stations-Assistenten, Stations-Vorsteher, Güter-Expedienten, Telegraphisten, sowie für das Zugbegleitungs-Personal. 4e, umgearbeitete und vermehrte Auflage. Aachen, 1888. Q. vii + 333. 54 *figs.*

Tesch, J. Katechismus für die Prüfungen zum Bahnhofs- und Werkstätten-Nachtwachter und Portier. Berlin, 1887. D. pp. (5) + 72.

—— Katechismus für die Prufungen zum Lademeister der Staats-Eisenbahnen; nebst einem besonderen Theile für die Vorbereitung zur schriftlichen Prufung. 2e, vermehrte Auflage. Berlin, 1893. O. pp. (5) + 244.

—— Katechismus für die Prüfungen zum Packmeister- und Zugführer-Anwärter der Staats-Eisenbahnen. 3e Auflage. Berlin, 1894. D. pp. vii + (1) + 206.

—— Katechismus für die Prüfungen zum Stations-Assistenten, Stations-Vorsteher und Güter-Expedienten der Staats-Eisenbahnen. 3e, vermehrte Auflage. Berlin, 1891. O. pp. (7) + 454.

—— *Same.* 4e, vermehrte Auflage. Berlin, 1893. O. pp. (8) + 518.

Urban, A. Recueil contenant les divers modes d' exploitation des gares communes en Belgique. Bruxelles, 1885. O. pp. (7) + 205. 1 *fold. map.*

Wetter, J. Die Prüfung zum Stationsvorsteher und Guterexpedienten, sowie zum Stationsassistenten im deutschen und insbesondere preussischen Staats-Eisenbahndienste. 2e Auflage. Elberfeld, 1889. D. pp. viii + 362.

a. Mail and Express.

Factage Parisien. Paris general parcels post and international carrying company, [prospectus.] Lond., Paris, [1862.] nar. D. pp. 18. 1 *fold. table.*

Great Britain—*House of Commons.* Report from the select committee on conveyance of mails by railways; with the proceedings of the committee, minutes of evidence and appendix. Ordered printed, 25 July, 1854. [Lond., 1854.] F. pp. xl + 606 + vi + 85.

—— Report from the select committee on railway communication, [so far as it affects the regularity and convenience of the transmission of letters and the post office in general] with the minutes of evidence, appendix. Ordered printed, 28 March, 1838. [Lond., 1838.] F. pp. viii + 164.

—— *Same.* Communicated by the Commons to the Lords. Ordered printed, 16th August, 1838. [Lond., 1838.] F. pp. viii + 164.

—— — *Parliament*—1 *William* IV. An act for the more effectual protection of mail contractors, stage coach proprietors, and other common carriers for hire, against the loss or injury to parcels or packages delivered to them for conveyance or custody, the value and contents of which shall not be declared to them by the owners thereof. [Royal assent,] 23d July, 1830. n.t.p. [Lond., 1885.] F. pp. 645–648.

—— — 1 & 2 *Vict.* An act to provide for the conveyance of the mails by railways. [Royal assent,] 14th August, 1838. n.t.p. [Lond., 1875.] F. pp. 797–804.

—— — 10 & 11 *Vict.* An act for giving further facilities for the transmission of letters by post. [Royal assent,] 22d July, 1847. n.t.p. [Lond., 1847.] F. pp. 813–818.

—— — 45 & 46 *Vict.* An act to amend the Post Office acts with respect to the conveyance of parcels. [Royal assent,] 18th August, 1882. n.t.p. [Lond., 1882.] Q. pp. 1 + 16.

Hull, C. H. Die deutsche Reichspacketpost. Jena, 1892. O. pp. (5) + 161. (Sammlung national-ökonomischer und statistischer Abhandlungen des staatswissenschaftlichen Seminars zu Halle a. d. S.; herausgegeben von Dr. J. Conrad. VIII. 3.)

Morandière, J. Note sur l'appareil employé en Angleterre par le post-office pour l'échange des dépêches sans arrêt des trains. n.t.p. O. pp. (2). 1 *fold. plate.* p. 80.

Stimson, A. L. History of the express companies; and the origin of American railroads. 2d ed. N. Y., 1858. O. pp. viii + (2) + 5–287. 2 *portrs.*

United States—*Post-Office Department.* Report of the general superintendent of railway mail service, for the year ending June 30, 1884–94. Washington, 1889–94. 11 vols. O.
In *Annual reports of the Postmaster General.*

b. Tariffs.

Baden—*Staatseisenbahnen.* Tarif für die Güter Versendung. n.p., n.d. broadside. obl. Q. p. 19.

Bechtel, A. Officieller Kilometerzeiger mit Übersichts-Skizzen zu den Allgemeinen und Militär-Tarifen der österreichisch-ungarischen Eisenbahnen. [*Magyar title:*] Hivatalos kilométermutató és átnézeti térképek az Osztrák-Magyar vasutak általános. 6. Jahrgang. Wien, 1891. sq. S.

Belfast and Northern Counties Railway. Passenger fares, &c., on and after 1st Jan., 1884. Belfast, 1884. sq. O. pp. 56.

Bemrose & Sons, *publishers.* Bemrose's railway rate book of the stations, sidings and collieries on the English railways, alphabetically arranged. 4th ed. [including: Railway maximum rates and charges, by M. B. Cotsworth, assimilating the Railway (rates & charges) Order Confirmation acts of 1891 and 1892, for all the railway companies and traders in the United Kingdom.] Lond., [1893?] 2 vols. bd. in 1. S. pp. vi + 225; (1) + 130.

Berster, A. Alphabetischer Eisenbahn-Frachten-Tarif für die Station Düren. Düren, [1893.] sq. Q.

Buchal, G. Stations-Güter-Tarif für den Eil- und Frachtgut-Verkehr zwischen Magdeburg einerseits, und allen deutschen und holländischen Güter-Stationen, mit Einschluss der Frachten für Böhmische Braunkohlen andererseits soweit directe Frachtsätze bestehen. 5e, vermehrte und bis zum 1. Juni 1891 berichtigte Ausgabe. Magdeburg, 1891. Q. pp. (3) + 186.

—— *Same.* 6e, vermehrte und bis zum 15. Juni 1893 berichtigte Ausgabe. Magdeburg, 1893. Q. pp. (4) + 247.

Central Pacific Railroad. Local freight tariff, to take effect June 22, 1873. [San Francisco, 1873.] F. pp. xx + 71 + (7). 2 *fold. tables.*

Conrady, F. J. Alphabetisches Stations-Verzeichniss nebst Tarif-Tabellen für den Eil- und Frachtgut-Verkehr der Stadt Hannover. Hannover, 1893. O. pp. (6) + 115.

—— *and* **Ohse, G.** Combinirter Eisenbahn-Frachtentarif für Nordwest- und Mitteldeutschland. Münster, i. W., 1887. O. pp. xxiii + (1) + 752.
pp. 735–752 contain advs.

Deutscher Levante-Verkehr: Tarif für den direkten Fracht-Güter-Verkehr von Stationen der Königlich Preussischen, der Königlich Sächsischen und der Königlich Bayerischen Staatsbahnen nach Stationen der orientalischen Eisenbahnen und der Fürstlich Bulgarischen Staatsbahnen über Hamburg seewärts; gültig vom 1. Januar 1892. [*French title:*] Service entre l'Allemagne et le Levant: Tarif pour le transport direct des marchandises de petite vitesse de certaines gares des chemins de fer l'État royaux de Prusse, de Saxe et de Bavière en destination de quelques stations des chemins de fer orientaux et des chemins de fer de l'État de Bulgare par Hambourg, voie de mer. Applicable à partir du 1er janvier 1892. Altona, Ottensen, [1892.] Q. pp. 132. 1 *fold. map*, 1 *fold. table.*

Great Britain—*Foreign Office.* Correspondence respecting tariffs for goods and passengers on Belgian state railways. Lond., 1891. F. pp. (2) + 27.

—— Correspondence respecting zone tariff rates for goods and passenger traffic on railways in Austria and Hungary. Lond., 1891. F. pp. (2) + 23.

—— — *Railway Department of the Board of Trade.* Railway charges; return by the railway companies in the United Kingdom, showing the rates charged for the carriage on their railway of wheat, barley and oats, imported and of home produce. Ordered printed, 1 February, 1887. Lond., [1887.] F. pp. 128.

—— Railways (maximum charges): return showing the maximum rates and charges which the railway companies of the United Kingdom are authorised to make. Ordered printed, 16 Feb., 1888. Lond, [1888.] F. pp. 207.

—— Return by the principal railway companies of the United Kingdom, showing the rates charged by them for the carriage and conveyance of fish for the year ending 31st Dec., 1887. Ordered printed, 7 June, 1888. Lond., [1888.] F. pp. 64.

Hanisch, E. E. Handbuch fur Kaufleute, Spediteure und Eisenbahn-Beamte; enthaltend Verhaltungs-Massregeln für Waaren-Versandt nach dem Auslande durch die Eisenbahnen. 3e Auflage. Leipzig, 1889. D. pp. (7) + 7–80. 10 *fold. tables.*

Hermann, W. Alphabetisch geordneter Stations-Tarif fur Leipzig in Verkehr mit deutschen Stationen. Leipzig, 1891. sq. O. pp. 164.

Hildebrandt, C. Berliner Tarifbuch; alphabetische Zusammenstellung der Eisenbahn-Güter-Tarife zwischen Berlin einerseits und deutschen Eisenbahnstationen, Fluss- und Seehafen andererseits. 2e Auflage. Berlin, 1887. O. pp. viii + 127.

—— Eisenbahn Güter-Tarif-Buch fur Hamburg-Altona-Ottensen, mit Angabe der kilometrischen Entfernungen fur die Hansestädte Bremen, Harburg [*sic*] und Lübeck im Verkehr mit den Eisenbahn-Güterstationen des deutschen Reichsgebietes und den oesterreich-ungarischen Verbandstationen. 2e, revidirte und vermehrte Auflage. Hamburg, 1890. O. pp. (4) + 228.

Hübers, H. Allgemeiner Frachten-Tarif für die Eisenartikel des Special-Tarifs II in Ladungen von mindestens 10,000 kg. per Wagen. Verkehr in Deutschland. 4e Ausgabe. Dortmund, 1893. Q. pp. 392.

Klie, H. Alphabetischer Güter-Frachten-Tarif und Porto-Taxe fur Mannheim. 3e, umgearbeitete und vermehrte Auflage. Mannheim, 1888. O. pp. (4) + 124 + (4) + xxxii.

Koch, P. Deutscher Eisenbahntarif für die Beförderung von Rohzucker, sowie von Zucker aller Art zum Export. Ausgabe für die Campagne 1887/88; Ausgabe für das Betriebsjahr 1894/95. Magdeburg, n.d. 2 vols. D.

Laib, — Lokal-Gütertarif für Stuttgart. Stuttgart, n.d. Q. pp. 43.

Lancashire and Yorkshire Railway. Rates, commencing March 9th, 1846. n.t.p. O. pp. 10.

Loesch, F. Alphabetarische Zusammenstellung der nach den Sätzen der Specialtarife abzufertigenden Sendungen. Gustrow, n.d. S. pp. 88.

Mändl, J., *publisher.* Mandl's Zonen- und Gepacks-Tarif nach sämmtlichen Stationen der k. k. österr. Staatsbahnen; Buschtĕhrader und Aussig-Teplitzer-Eisenbahn; giltig fur die Station Komotau. Komotau, [1890.] T. pp. 62.
pp. 39–62 are advs. Cover title.

Mareis, E., *publisher.* Zonen- und Gepäcks-Tarif nach sämmtlichen Stationen der k. k. österr. Staatsbahnen; giltig für die Station Linz a.d.D. Linz, [1890.] T. pp. (4) + 63.
pp. 43–63 are advs.

Milano - Bergamo - Cremona Tramways. Norme e tariffe per il trasporto bagagli, merci, veicoli, e bestiame. 1° Aprile, 1886. Milano, 1886. O. pp. 107 + iii.

Moser, C. Alphabetisch geordneter Eisenbahn-Fracht-Tarif, enthaltend alle ordentlichen Tarifsätze zwischen den Stationen Chemnitz, Dresden-Altstadt, [etc.] einerseits und allen deutschen Stationen andererseits. 3e Auflage. Dresden, [1889.] Q. pp. (8) + 130.

Pacific Coast tariff; giving rates and mileage over the various transportation lines of the Pacific Slope. C. B. T. Lincoln, compiler. vol. 1. no. 1. Oct., 1891. San Francisco, 1891. nar. O.

Quartier, H. *and* **Steuber, C.** Zusammenstellung der zur Zeit gültigen Eisenbahn-Gütertarife der Station Hagen i. Westf. fur Eisen u.

Stahl sowie Eisen- u. Stahlwaaren. Hagen i.W., [1888.] S. pp. (5) + 155.

—— *Same.* Nachtrag 1. Hagen i.W., [1889.] S. pp. (2) + 2-138.

Reeck, G. Eisenbahn-Güter-Tarif für Berlin, enthaltend die für den Verkehr zwischen Berlin einerseits und deutschen, sowie niederländischen Eisenbahnstationen. 2e, vermehrte und verbesserte Auflage; ausgegeben am 1. December 1885. Berlin, [1885.] Q. pp. (5) + lxvi + 152 + 19.

Restin, F. Güter-Tariftabelle der Stationen Frankfurt a. M. und Sachsenhausen. 6. Auflage. Frankfurt a. M., 1892. sq. O. pp. 194.

Schäfer, G. Zusammenstellung von Frachtsätzen für die Beförderung von Steinkohlen und Koks. 18. Jahrgang. 1892. Elberfeld, 1892. sq. O. 3 pts. bd. in 1 vol. sq. O.

Stetter, — Local Gütertarif fur Stuttgart von und nach sämtlichen deutschen Verbands-Stationen, mit Tarif-Vorschriften nebst Güterklassifikation. Stuttgart, 1892. sq. O. pp. (2) + 5-181 + (2).

Tabelle für die Berechnung der Frachtzuschläge bei Declaration des Interesses rechtzeitiger Lieferung von Gütern. Berlin, n.d. broadside. obl. Q. P. 19.

Tabelle für die Berechnung der Frachtzuschläge bei Declaration des Werthes für Güter. Berlin, n.d. broadside. obl. Q. P. 19.

Tenscherz, J. S. Tarif-Buch; eine systematische Zusammenstellung der die kgl. bayerischen Staatseisenbahn - Linien berührenden Güter-, Leichen-, Fahrzeuge & Vieh-Tarife. München, 1886. Q. pp. 224.

Zürcher Eisenbahnfrachten-Tarif, gültig ab 1. Mai 1887. Zürich, 1887. O. pp. 28.
Cover title.

c. Train Service.

Banderali, D. Les trains express en 1883: conférence fait au Conservatoire National des Arts et Métiers à Paris, le 18 mars 1883. Lille, 1883. O. pp. (5) + 9-75. 8 *plates*, 14 *tables*. P. 23.

Brewster, *Rev.* **P.** Sunday trains defended. Paisley, 1849. nar. D. pp. 16. P. 41.

Busschere, L. de. Note sur la situation actuelle de l'unification des heurs. Bruxelles, 1891. O. pp. 31. P. 23.
"Extrait du *Bulletin de la Commission internationale du Congrès des chemins de fer.*"

Deacon, C. R. "One hundred miles an hour." Philadelphia, 1892. O. pp. (6). P. 5.
Extracted from *Lippincott's magazine*, March, 1892. pp. 342-347.

Dowd, C. F. System of national time and its application, by means of hour and minute indexes, to the national railway time-table; also a railway time gazetteer, containing all the railways in the United States and Canada, alphabetically arranged, with their stations indexed in form for the national railway time-table. Albany, 1870. O. pp. 107. 1 *fold. chart.*

Fleming, W. Railway time-table constructor and speed calculator; giving the time for running any distance, at any speed, and the speed of any train, at sight. N. Y., [1885.] nar. O. pp. 24.

Foxwell, E. English express trains. Lond., 1884. O. pp. v + 128.

—— *and* **Farrer, T. C.** Express trains, English and foreign; a statistical account of all the express trains of the world. Lond., 1889. O. pp. (5) + 181. 2 *maps*, 2 *fold. maps*, 2 *fold. maps in pockets.*

France—*Ministère des Travaux Publics.* Rapport par M. E. de Fourcy, sur un système d'appareils électriques servant à mettre en communication les voitures d'un train, de M. Prudhomme. Paris, 1863. O. pp. (2)+15. 1 *fold. plate.* P. 24.
"Extrait des *Annales des ponts et chaussées*, 2e semestre, 1862."

Great Britain—*House of Commons.* Memorandum on the measures which have been adopted in France and Belgium for effecting a communication between guards and drivers of railway trains, and suggesting means for attaining the same object in the United Kingdom. Ordered printed, 9 March, 1853. [Lond., 1853.] F. pp. 5.
This and the five next following in vol. "Great Britain railway pamphlets. Operation. 1."

—— Special report from the select committee on the Railways (Guards' and Passengers' Communication) bill. Ordered printed, 2 August, 1866. [Lond., 1866.] F. pp. iv.

—— — *House of Lords.* Report from the select committee appointed to inquire into the expediency of restraining the practice of carrying goods and merchandise on canals, navigable rivers, and railways on Sundays, with the minutes of evidence. Ordered printed, 4th May, 1841. [Lond., 1841.] F. pp. iii + 131.

—— — *Railway Department of the Board of Trade.* Copies of circular of 30 July, 1864, from the Board of Trade to the railway companies, on the subject of a means of communication between different parts of a railway train whilst in motion; of correspondence between the Board of Trade and the committee of the Railway Clearing House; and, of the reports by the committee and by Captain Tyler on the same subject. Ordered printed, 8 June, 1865. [Lond., 1865.] F. pp. 23.

—— Report by Colonel Yolland on experiments recently made on various lines of railway on which some of the trains have been run wholly or partially fitted with different systems of electrical communication between passengers and the servants of railway companies in charge of those trains. 21st February, 1868. [Lond., 1868.] F. pp. 6.

—— Report of Captain Wynne, on Professor Gluckman's invention of a means of communication between guards and drivers of trains on railways. Lond., 1854. F. pp. 4.

Hesse-Wartegg, E. von. Die Einheitszeit nach Stundenzonen, [ihre Einfuhrung im Weltverkehr und im gewöhnlichen Leben.] Leipzig, 1892. O. pp. (5) + 74 + (1). 1 *fold. map.*
"Bibliographie" appended.

Letter to Joseph Locke, M. P. for Honiton, in reference to his bill, "To regulate Sunday travelling on railways;" by a Scotchman. Glasgow, 1849. O. pp. 16. P. 41.

Letter to the members of the House of Commons on Mr. Locke's bill; by a railway proprietor. n.t.p. [Edinburgh? 1849.] O. pp. 8. P. 41.

Pasquier, E. De l'unification des heures dans le service des chemins de fer. Bruxelles, Louvain, 1889. O. pp. 23. 1 *fold. plate.* P. 23.
"Extrait des *Mémoires de l'Union des Ingénieurs de Louvain*, 1889."

Prout, H. G. The fastest train in the world. N. Y., 1893. O. pp. (6).
Extracted from the *North American review*, vol. 157. July, 1893. pp. 75–80.

Smith, *Rev.* **G.** The Sunday question; a railway subject quietly considered. Edinburgh, Glasgow, 1865. O. pp. 16. P. 41.

Thurston, R. H. Speed in railway travel. N. Y., 1890. O. pp. (9). P. 5.
Extracted from the *Forum*, vol. 10. Dec. 1890. pp. 463–471.

Tyler, *Captain* **H. W.** On circulation and communication in railway trains. n.t.p. [Lond., 1865.] O. pp. (21). 2 *figs.*, 1 *plate.* P. 80.
Extracted from the *Quarterly journal of science*, Oct., 1865.

Voorhees, T. "Ninety miles in eighty-nine minutes." N. Y., 1892. O. pp. (7). P. 5.
Extracted from the *North American review*, vol. 154. Jan., 1892. pp. 69–75.

Waldo, L. Railroad and public time. N.Y., 1883. O. pp. (5) P. 5.
Extracted from the *North American review*, vol. 137. Dec., 1883. pp. 605–609.

Local Railways.

Abt, F. Die Praxis des Lokalbahn-Betriebes. Munchen, 1890. O. pp. viii + 164 + 93 + (1).

Acworth, W. M. Light railways. Lond., 1894. O. pp. 21.
"From the *Journal of the Royal Agricultural Society of England*, vol 5. 3d series, part 4." Cover title.

—— Light railways. Lond., 1895. O. pp. (15).
Extracted from the *Journal of the Society of Arts*, vol. 43. Feb. 15, 1895. pp. 291–306.

Bianchi, G. L'impianto e l'esercizio dei tramways nella provincia di Milano: dati tecnici e statistici raccolti a cura del deputato provinciale. Milano, Napoli, Pisa, 1883. O. pp. viii + (4) + 270. 42 *figs.*, 2 *plates*, 17 *fold. plates.*

Birk, A. Ueber Dampf-Tramways in Elsass-Lothringen, Frankreich und Ober-Italien. Wien, 1882. O. pp. 16.
"Separat-Abdruck aus dem *Centralblatt für Eisenbahnen und Dampfschiffahrt.*"

—— Ueber Schmalspurbahnen; Vortrag gehalten im österreichischen Ingenieur- und Architekten-Verein. Wien, 1886. O. pp. (2) + 5–48. 9 *figs.*
"Separat-Abdruck aus der *Zeitschrift des österr. Ingenieur- und Architekten-Vereines.* 1885."

Boulan, A. Les chemins de fer d'intérêt local. Paris and Nancy, 1879. O. pp. (2) + 37. P. 15.
"Extrait de la *Revue générale d'administration.*"

Bourgeois, L. Les chemins de fer économiques, à voie étroite et sur accotements. Paris, 1878. O. pp. (2) + 5–46. P. 28.
"Extrait de la *Réforme économique* des 1er et 15 décembre 1877."

Bresson, A. Les narrow-gauges; étude pratique des voies étroites américaines, leur application aux "voies ferrées sur routes," aux lignes industrielles et aux tramways des villes. n.t.p. [Paris, 1879.] O. pp. (31). 2 *figs.*, 1 *fold. plate.* P. 28.
Extracted from *Annales du génie civil*, 2e série, 8e année, avril, juin, 1879.

Buresch, E. Die schmalspurige Eisenbahn von Ocholt nach Westerstede (Herzogthum Oldenburg). Hannover, 1877. O. pp. viii + 72. 10 *fold. plates.*

Busschere, L. de, Jaer, J. de *and* **Niels, P.** De l'exploitation économique des lignes secondaires des grands réseaux de chemins de fer dans différentes pays de l'Europe. Bruxelles, 1887. O. pp. (2) + vii + 382 + (2), and *Atlas*, sq. F^{t}., *of* 24 *fold. plates.*

[Cantalupi, A.] Progetto per la costruzione di una ferrovia economica o di interesse locale nella Valle Seriana da Bergamo a Clusone con diramazione per Gandino: relazione tecnica. Bergamo, 1871. O. pp. 17. P. 68.

Cazeneuve, A. Le réseau d'intérêt local et les chemins de fer sur route. Paris, 1879. D. pp. (3) + 7–59 + (1). P. 15.

Chabrier, E. Les chemins de fer d'intérêt local sur routes: 1872–1878. Paris, 1878–79. 2 pts. in 1 vol. O. pp. (3) + 7–44 + viii + iii–lxxxiii. P. 16.
With appendix: Chemins de fer sur accotement des routes: rapports et documents concernant l'étude de cette question, de 1872 à 1878.

—— Les tramways dans les campagnes; chemins de fer économiques: voies et moyens. Paris, 1877. O. pp. 10. P. 34.

Choppard, L. Des chemins de fer industriels. Paris, 1880. O. pp. 59 + (1). P. 16.
"Extrait de la *Revue générale d'administration.*"

Considère, — Utilité des chemins de fer d'intérêt local; nature et valeur des divers types de convention. Paris, 1892. nar. O. pp. (2) + 270. 19 *figs.*
"Extrait des *Annales des ponts et chaussées*, février et mars, 1892."

—— Colson, C. La formule d'exploitation de M. Considère; quelques réflexions, à ce sujet, sur l'utilité des chemins de fer secondaires et sur les tarifs. Paris, 1892. O. pp. (2) + 5–60. P. 24.
"Extrait des *Annales des mines*, juillet, 1892."

Cottrau, A. Sulle ferrovie comunali e provinciali da costruirsi in Italia. Firenze, 1866. O. pp. 54. P. 72.

Crugnola, G. Ferrovia economica fra Montesilvano e Penne. Torino, Napoli, 1888. O. pp. 64. 3 *fold. plates.* P. 68.
"L'allegato E contenente i disegni tipi delle opere d'arte non fu pubblicato."

Fairlie, R. F. Locomotive engines: what they are and what they ought to be. Lond., 1864. O. pp. 36. 1 *fig.*, 13 *plates.*

—— Paper on railway gauges; read before the British Association at Edinburgh, 1871. Lond., 1871. O. pp. 21. 1 *plate.*

—— Paper on railway reform; read before the British Association, at Edinburgh, 1871. Lond., 1871. O. pp. 20. 1 *plate.*

—— Paper on the gauge for "The railways of the future"; read before the British Association, at Liverpool, 1870. Lond., 1871. O. pp. 20.

—— Railways or no railways: narrow gauge, economy with efficiency, v. broad gauge, costliness with extravagence. Lond., 1872. O. pp. (2) + 3–147. 7 *plates*, 1 *fold. plate*, 3 *fold. charts.*

—— *Same, French.* Chemins de fer ou absence de chemins de fer? voie étroite, c'est-a-dire: économie et efficacité, opposée à voie large, c'est-a-dire: exagération de prix et extravagence. Paris, 1872. O. pp. (3) + v–xv + 149. 7 *plates*, 1 *fold. plate*, 3 *fold. charts.*
Cover title: Aurons-nous des chemins de fer ou n'en aurons-nous pas? : réponse à la "Revue" de l'Hon. Silas Seymour de New York par R. F. Fairlie de Londres.

—— Die richtige Praxis der Schmalspurbahnen: nach dem englischen Werke "The battle of the gauges renewed," und mit einem Anhange vermehrt ins Deutsche übertragen von A. Brunner. Zürich, 1873. O. pp. (7) + iv + 5–120. 2 *fold. plates*, 3 *fold. charts.*

—— Beyer, J. Normal- und zu Schmal-Spur und die Fairlie-Locomotive. Wien, 1873. O. pp. 28. P. 28.

—— Demarteau, A. Gedankenlese uber die Wichtigkeit des Fairlie'schen Locomotiv-Systems und der schmalspurigen Schienenstrassen für Oesterreich-Ungarn. Wien, [1872.] O. pp. 44. P. 28.

—— Jacobi, F. C. Delle strade ferrate economiche a binario ridotto e specialmente di una ferrovia sistema Fairlie da Pisa a Calci. Pisa, 1876. O. pp. 69. P. 68.

—— Opinions of the press on the Fairlie engine; a series of articles reprinted from the leading scientific and other journals. Lond., 1868. O. pp. iv + 142. 9 *figs.*, 3 *fold. plates.*

—— Railway (The) problem and the railways of the future. Lond., 1871. O. pp. 53.
"Re-printed from the *Times.*"

Falies, A. Chemins de fer à traction de locomotive sur routes: choix de la largeur de voie. Paris, 1878. O. pp. (2) + 5–21 + (1).

—— Étude théorique et pratique sur les chemins de fer à traction de locomotives sur routes. n. t. p. Paris, 1878. O. pp. (35). 2 *fold. plates.*
"Extrait des *Annales du génie civil*, juillet, 1878."
Cover title: Chemins de fer à traction de locomotives sur routes."

—— *Same.* 2e édition, revue et augmentée: Étude théorique et pratique sur les chemins de fer à traction de locomotive sur routes. Paris, 1878. O. pp. (4) + 7–111. 2 *fold. plates.*

—— Le nouveau projet de loi des chemins de fer d'intérêt local: étude technique et financière. 1re partie. Paris, 1879. O. pp. vi + 7–48.

Ferraris, M. Sulla base principale della economia ferroviaria e sul servizio economico delle ferrovie. Torino, 1880. O. pp. 104. 2 *fold. plates.*
"Estratto dal periodico *L'ingegneria civile et le arti industriali*, anno 6."

Festiniog Railway. Bishop, W. H. Over the narrowest narrow gauge. N. Y., 1879. O. pp. (13). 16 *cts.*
Extracted from *Scribner's monthly*, vol. 18. Aug., 1879. pp. 593–605.

—— Spooner, C. E. A descriptive account of the construction and working the Festiniog railway. Lond., 1870. O. pp. (1) + 34. 10 *figs.*, 6 *fold. plates*, 1 *fold. map*, 2 *fold. tables.* P. 87.

—— Tyler, *Captain* H. W. On the Festiniog railway for passengers: as a 2-feet gauge, with sharp curves, and worked by locomotive engines. Lond., 1865. O. pp. 34. 1 *fig.* P. 87.
"Excerpt *Minutes of Proceedings of the Institution of Civil Engineers*, vol. 24. Session 1864-65."

—— Vignes, E. Étude technique sur le chemin de fer Festiniog et quelques autres chemins de fer à voie étroite de l'Angleterre. Paris, 1878. O. pp. (2) + v + 180, and *Atlas*, obl. Q., *of* 11 *fold. plates.*

Fischel, A. Die Tertiärbahnen; ein Mittel zur Hebung der Landwirtschaft und Industrie. Wien, 1893. O. pp. 26.

Fleming, H. Narrow gauge railways in America; a sketch of their rise, progress and

success: statistics as to grades, curves, weight of rail, locomotives, cars, etc.; also a directory of narrow gauge railways in North America. 2d ed. [Lancaster, Pa., printed.] 1876. O. pp. 104. 9 *figs.*, 5 *fold. plates.*

Fournier, — Notice sur la construction et les prix de revient des chemins secondaires de Valkany à Perjamos et de Vojtek à Bogsan (Hongrie). Paris, 1876. O. pp. 24. 1 *fold. plate.* P. 56.

"Extrait des *Annales des ponts et chaussées*, 1876, 1er sem. II." Cover title.

France — *Comité de l'Exploitation Technique des Chemins de Fer.* Les chemins de fer de la Corse, a voie de 1 mètre: disposition de la voie, du matériel roulant, des voies et bâtiments des stations, signaux. Paris, 1883. nar. O. pp. (2) + 5-95. 10 *fold. plates.*

"*Annales des mines*, 8e série, t. 3. pp. 307 et suiv."

—— Rapport présenté au Comité au nom de la sous-commission des trains légers et économiques dits trains-tramways; par M. Heurtean. Paris, 1882. O. pp. (2) + 5-75. 4 *fold. plates.* P. 34.

"Extrait des *Annales des mines*, novembre-décembre, 1882."

Great Britain—*Foreign Office.* Reports from Her Majesty's representatives abroad on light railways. Presented by command, August 1894. Lond., [1894.] O. pp. (2) + 79.

—— — *Parliament*—46 & 47 *Vict.* An act for promoting the extension of tramway communication in Ireland. [Royal assent,] 25th August, 1883. n.t.p. [Lond.,1883.] Q. pp. 15.

—— — 47 & 48 *Vict.* An act to amend the Tramways and public companies (Ireland) act, 1883. [Royal assent,] 14th July, 1884. n.t.p. [Lond., 1884.] Q. pp. 2.

—— — 52 & 53 *Vict.* An act to facilitate the construction of light railways in Ireland. [Royal assent,] 30th August, 1889. n.t.p. [Lond., 1889.] Q. pp. 1 + 5.

—— — 53 & 54 *Vict.* An act to provide further facilities for the construction of certain railways in Ireland. [Royal assent,] 18th August, 1890. n.t.p. [Lond., 1890.] Q. pp. 3 + (1).

—— — 54 *Vict.* An act to authorise the transfer of the powers of promoters of undertakings, under the Tramways (Ireland) acts, to certain existing railway companies. [Royal assent,] 9th December, 1890.] n.t.p. [Lond., 1890.] Q. pp. i + 8.

—— — 54 & 55 *Vict.* An act further to amend the Tramways (Ireland) act, 1860. [Royal assent,] 28th July, 1891. n.t.p. [Lond., 1891.] Q. pp. 2.

Hostmann, W. Bau und Betrieb der Schmalspurbahnen und deren volkswirthschaftliche Bedeutung fur das deutsche Reich. Wiesbaden, 1881. O. pp. xii + 96. 7 *fold. plates.*

"Verzeichniss der Literatur." pp. 94-96.

—— Die Kleinbahn-Projecte im Kreise Soest; ein Beitrag zur Forderung des Baues von Kleinbahnen. Wiesbaden, 1893. Q. pp. (2) + 16. 1 *fold. map.*

—— Rückblicke auf die Feldabahn, 1877-1893; ein Beitrag zur Förderung des Kleinbahnwesens. Wiesbaden, 1893. Q. pp. 14.

"Separat-Abdruck aus der *Zeitschrift für Local- und Strassenbahnwesen*, 13 Band. 1894."

Humbert, G. Traité des chemins de fer d'intérêt local, chemins de fer à voie étroite, tramways, chemins de fer à crémaillère et funiculaires. Paris, 1893. Q. pp. vii + 493. 210 *figs.*, 2 *fold. plates.*

Italy — *Ministero dei Lavori Pubblici.* Le ferrovie economiche d'Europa; relazione dell'ingegnere Felice Biglia. Firenze, [1867.] O. pp. 173 + (2). 2 *fold. plates.*

Jones, D. An illustration of the benefits which second class branch railway companies, proprietors of existing main lines of railway, and the public at large, may derive from the making of second class branch railways. 2d ed. Lond., 1865. O. pp. 37. P. 44.

Kuhrt, — Bau und Betrieb der schmalspurigen Kreis-Eisenbahnen Flensburg-Kappeln. Flensburg, 1887. sq. Q. pp. (2) + 46 + (2). 4 *fold. plates.*

—— Sechs Fragen uber Bau und Betrieb der Tertiärbahnen für den öffentlichen Verkehr. 2. Auflage. [Flensburg, 1892.] O. pp. (2) + 5-24.

Laudet, F. Chemin de fer d'intérêt local à voie étroite: résumé de la question. Tarbes, 1894. O. pp. 15.

Laval, T. Chemin de fer d'intérêt local d'Annemasse à Samoens; étude à l'appui de la demande en concession. Genève, 1886. O. pp. 42. 1 *fold. map*, 1 *fold. plan.* P. 82.

Ledoux, C. Description raisonnée de quelques chemins de fer à voie étroite. Paris, 1874. O. pp. (2) + 5-177, and *Atlas in pocket*, nar. O., *of* 10 *fold. plates.*

Contents: — Chemin de fer d'Ergastiria. — Chemin de fer de Moktâ-el-Hâdîd. — Chemins de fer de Saint-Léon (Sardaigne); de Rochebelle et de Cessons et Trébiau (Gard).

Extrait des *Annales des mines*, tome 5, 1874."

Lernet, A. Die Vicinal-Bahnen, technisch und wirthschaftlich beleuchtet: ein Wort zu rechter Zeit an unsere Grossgrundbesitzer und Grossindustriellen. Wien, 1876. O. pp. 31. P. 34.

Level, É. De la construction et de l'exploitation de chemins de fer d'intérêt local; études pratiques, suivies de considérations économiques et techniques sur le chemins de fer à transbordement. 2e éd. Paris, 1873. O. pp. (3) + viii + iv + 636.

Lewis, W. *and* **Green, C. F.** Narrow gauge railways, Ireland; by William Lewis. Light railways, or remunerative railways for thinly-populated districts; by C. F. Green. Dublin, Lond., N. Y., 1882. O. pp. 77. 4 *fold. plates.* P. 28.

Martin, F. Monographie d'une ligne à voie d'un mètre avec rampes maxima de 40 millimètres et rayons minima de 40 mètres: ligne de Beaune à Arnay-le-Duc. Paris, 1891. O. pp. 23. 3 *fold. plates.* P. 28.
"Extr. de la *Revue générale des chemins de fer*, juin 1891."

Marx, —, Varroy, — *and* **Jundt, —** Notice sur les chemins de fer d'Alsace dits vicinaux ou départementaux, leur prix de revient, les ressources appliquées à leur construction, leur mise en exploitation. Paris, 1865. O. pp. (1) + 5–24. P. 15.
"Extrait des *Annales des ponts et chaussées*, tome 8, 1864."

Moreau, A. Les chemins de fer d'intérêt local; avantages de la voie étroite. Paris, 1884. O. pp. (58). P. 28.
Extracted from *Mémoires de la Société des Ingénieurs civils*, 4e série, 37e année, décembre, 1884. pp. 557-614.

Moreno, O. Le ferrovie economiche. Torino, 1872. O. pp. (6) + 204.
"Estratto dal *Monitore delle strade ferrate*, del 1871-72."

Moschell, J. Étude comparative sur la voie étroite et la voie large. Zürich, 1874. O. pp. (2) + 27. P. 28.
"Extrait du journal suisse *Le chemin de fer*."

—— Notice sur le chemin de fer à voie étroite de Lausanne à Échallens. Paris, 1880. O. pp. (26). 1 *fig.*, 1 *fold. plate.* P. 28.
"Extrait des *Annales du génie civil*." Cover title.

Noblemaire, — Les chemins de fer départementaux. Paris, 1889. O. pp. (2) + 36. P. 15.
"Extrait des *Annales des ponts et chaussées*, décembre, 1889."

Noël, O. Les chemins de fer d'intérêt local. Paris, 1883. O. pp. 32.
"Extrait de la *Revue britannique*, octobre, 1883."

Norme pratiche per la costruzione dei tramways, tanto esercitati coi cavalli quanto colle locomotive. Milano, 1882. O. pp. 173.

Olivieri, E. Le ferrovie economiche del Lago di Lugano. Milano, 1885. O. pp. 20. 12 *fold. plates.*
"Estratto del *Politecnico*, vol. 33."

Osthoff, G. Der gesamte Eisenbahnbau: unter besonderer Berücksichtigung der Secundär- und Tertiarbahnen, des Erdbaues, der Trambahnen und der Seilbahnen: mit Angaben über Preise und Kosten. Leipzig, 1884. O. pp. xvi + 574. 474 *figs.*

Plessner, F. Anleitung zur Ermittelung der Betriebs-Einnahmen und Ausgaben der Localbahnen von verschiedener Länge und Projections-Verhaltnisse. Berlin, [1883.] O. pp. 68.

—— Noch ein Wort zur Anregung des Baues der Lokalbahnen und Einrichtung eines billigen Eisenbahnbetriebes. Berlin, 1875. O. pp. (1) + 48. P. 19.

Pontzen, E. Note sur l'application des chemins de fer économiques à l'achèvement du réseau des chemins de fer français. Paris, 1883. O. pp. (2) + iii + 33. P. 16.

—— Die Praxis des Baues und Betriebes der Secundärbahnen mit normaler und schmaler Spur, welche Personen und Güterverkehr führen; kritische Erörterungen auf ausgeführten Bahnen gesammelter Thatsachen. 2e, mit einem Anhange vermehrte Auflage. Weimar, 1873. O. pp. (2) + v-xxii + 135. 4 *fold. tables.*

Prete, F. del. Sopra l'armamento delle ferrovie economiche. Roma, 1874. O. pp. 81 + (1). 1 *fold. plate.* M. 3.

Ramsauer, P. Das Projekt einer Eisenbahn von Jever nach Carolinensiel, zugleich ein Beitrag zur Lösung der Frage der Lokalbahnen und deren Finanzirung. Jever, 1886. D. pp. 61 + (1). 1 *fold. map.* P. 19.

Rapier, R. C. Remunerative railways for new countries; with some account of the first railway in China. Lond., N. Y., 1878. Q. pp. (2) + 5–114. 56 *figs.*, 8 *photo. plates*, 9 *fold. plates.*

[Rossi, F. *and* **G.]** Progetto di una ferrovia economica fra Schio-Piovene-Arsiero. Schio, 1880. O. pp. 34. 1 *map.* P. 68.

Roy, E. Chemins de fer d'intérêt local; vade mecum aux trois points de vue, financier, économique et technique. Paris, 1877. D. pp. (2) + v-viii + 151 + (1).

Salwey, E. R. Light railways as a practical means of exploration. Lond. and N. Y., 1890. O. pp. (3) + 7–109. 21 *plates.*

Sampité, A. Les chemins de fer à faible trafic en France; lignes secondaires des grands réseaux, chemins de fer d'intérêt local et tramways à vapeur: établissement et exploitation. Paris, 1888. O. pp. (2) + vi + 467, and *Atlas*, obl. O. *of* 16 *plates.*

Sartiaux, A. Note sur la question des chemins de fer économiques et en particulier des chemins de fer à voie étroite. Paris, 1883. Q. pp. 355–382. M. 3.
"Ouvrages et études sur les chemins de fer à voie étroite," pp. 376-382.
"Extrait de la *Revue générale des chemins de fer*, mai 1883."

Schmalspurbahn (Die) und ihre Gegner: eine Beleuchtung des Gutachtens des Hrn. Wetli. [Stäfa, 1873.] D. pp. (1) + 66 + (1). P. 9.

Schübler, A. Ueber Eisenbahnen von localem Interesse, insbesondere Vizinal- und Industrie-Bahnen. Stuttgart, 1872. Q. pp. (4) + 9–80. M. 3.
"Moritz Mohl."

Sonnenschein, S. Das Localbahnwesen in Oesterreich. Wien, Pest, Leipzig, 1886. O. pp. iv + (1) + 151.

Spooner, C. E. Narrow gauge railways. Lond., 1871. O. pp. (5) + 128. 11 *figs.*, 25 *fold. charts.*

—— *Same.* 2d ed. Lond., 1879. O. pp. (5) + 128. 11 *figs.*, 25 *fold. charts.*

Stern, J. Die Dampf-Tramway; Einfluss derselben auf das öffentliche Interesse; ihr Bau und Betrieb; ein Beitrag zur Lösung der Localbahnfrage. Wien, 1882. O. pp. (4) + 103. 5 *fold. plates.*

—— Die Oekonomik der Localbahnen; allgemeine Grundsätze zur Ermöglichung einer rationellen ökonomischen Durchfuhrung unserer Localbahnen; volkswirthschaftlich und technisch beleuchtet. Wien, 1882. O. pp. (7) + 91.

Tartary, R. Construction et exploitation des chemins de fer à voie de 0.60 centimètres: voie, terrassements, ouvrages d'art, machines et matériel roulant, avec étude d'un tracé entre deux points donnés. Paris, 1891. O. pp. (2) + 245. 91 *figs.*, 1 *fold. plate*, 1 *fold. map*, 1 *fold. profile.*

Unruh, C. M. von. Die Kleinbahnen: ihre Entwickelung, Aufgabe, Organisation, Financirung und Tarifbildung; unter besonderer Berücksichtigung der Verhaltnisse in den östlichen Provinzen. Bromberg, 1893. O. pp. 141.

Varroy, H. Exposé de la marche administrative suivie pour l'organisation du premier réseau des chemins de fer départementaux ou d'intérêt local dans le département de la Meurthe. Nancy, 1870–72. O. pp. (2) + v-vii + 142. 3 *fold. tables.*

—— *and* **Bauer, J.** Compte rendu statistique de la construction et de l'exploitation du chemin de fer d'intérêt local d'Avricourt à Blamont et à Cirey, dans le département de Meurthe-et-Moselle. Paris, Nancy, 1874. F. pp. 69. 52 *figs.*, 1 *plate.* M. 8.

Viappiani, A. La costruzione e l'esercizio delle tramvie. Torino, 1893. O. pp. (2) + v-xvi + 317. 13 *figs.*, 10 *fold. plates.*

Verein Deutscher Eisenbahn-Verwaltungen. Grundzüge für den Bau und die Betriebseinrichtungen der Lokaleisenbahnen. Berlin, 1890. O. pp. 40. 1 *plate*, 1 *fold. plate.* P. 19.

—— Grundzüge fur den Bau und die Betriebseinrichtungen der Nebeneisenbahnen. Berlin, 1890. O. pp. 40. 1 *fold. plate.*

—— Grundzuge fur die Gestaltung der secundaren Eisenbahnen. Wiesbaden, 1873. O. pp. (3) + 3–65. 3 *plates.* P. 19.

Vincentiis, G. de. Sommario delle condizione economiche e tecniche di un tronco di ferrovia economica a costruire tra Grumo, Altamura e Barletta. n.p., n.d. O. pp. 44 + (7). 2 *fold. plates.* P. 68.

Weber, M. M. *Freiherr* **von.** Neue Pfade der Volkswirthschaft: die Secundär-Eisenbahnen mit normaler Spurweite und langsamer Fahrbewegung. Weimar, 1874. O. pp. 34.

—— Standard gauge and narrow gauge; a popular discussion of the relative advantages of the standard and the narrow gauge for light local railways N. Y., n.d. D. pp. 36. P. 5.
"Translated from the German."

Zezula, F. Im Bereiche der Schmalspur: eine Darstellung der hervorragendsten Errungenschaften auf dem Gebiete des schmalspurigen Eisenbahnwesens. Sarajevo, 1893. Q. pp. (7) + 5–212. 129 *figs.*, 4 *fold. plates.*

—— Statistik der schmalspurigen Eisenbahnen für das Betriebsjahr 1890, 1891. 1.–2. Jahrgang. Wiesbaden, 1892-93. 2 vols. bd. in 1. Q.

Ziffer, E. A. Die Localbahnen in Galizien und der Bukowina im Anschlusse an die k. k. priv. Lemberg-Czernowitz-Jassy Eisenbahn. Wien, 1891. sq. F. pp. viii + 190. 74 *plates*, 8 *fold. plates*, 6 *maps*, 3 *fold. maps*, 6 *fold. tables.*

—— Ueber die schmalspurigen steiermärkischen Landesbahnen. Wien, 1893. O. pp. 25. 1 *fold. plate.*
"Sonder-Abdruck aus der *Zeitschrift des Oesterr. Ingenieur- und Architekten- Vereines*, Nr. 33, vom August 1893."

I. ATMOSPHERIC AND HYDRAULIC RAILWAYS.

Antonini, G. Sulla locomozione a motori idraulici e ad aria compressa per le ferrovie a forti pendenze. Milano, 1861. F. pp. (3) + 100. 1 *plate*, 9 *fold. plates.*

Arnollet, — Chemins de fer atmosphériques; mémoire sur des perfectionnemens d'après lesquels ces chemins peuvent être établis et exploités facilement, et à peu de frais, dans tous les lieux accessibles aux voitures ordinaires. n.t.p. O. pp. 15. P. 50.

Daigremont, J. Étude sur les chemins de fer atmosphériques. Turin, 1865. O. pp. 89. 6 *figs.*, 3 *fold. plates.* P. 50.

Dapples, E. Étude sur l'application des forces hydrauliques à l'exploitation des chemins de fer de montagne et en particulier sur les chemins de fer pneumatiques. Lausanne, 1866. O. pp. (2) + 3–130.

Dubern, H. A. De l'application de l'air atmosphérique aux chemins de fer; résumé des opinions des ingénieurs français et anglais sur les chemins de fer atmosphériques. Paris, 1846. O. pp. (2) + v-xvi + 17–81 + (1). P. 50.

Girard, L. D. Hydraulique appliquée: chemin de fer glissant; nouveau système de locomotion à propulsion hydraulique. Paris, 1864. sq. Q. pp. (2) + iii-viii + 78. 1 *plate*, 6 *fold. plates.*

—— Hydraulique appliquée: note sur le chemin de fer glissant. Paris, 1865. sq. Q. pp. 8. 1 *fold. plate.*

—— NANSOUTY, M. C. de. Le chemin de fer glissant de Girard et Barre. Paris, [1890.] D. pp. (2) + 38 + (1). 12 *figs.*, 1 *fold. plate.* P. 24.

—— NOTICE sur le chemin de fer glissant à propulsion hydraulique; système L. D. Girard, perfectionné par A. Barre. Paris, 1889. O. pp. 36. 8 *plates.* P. 71.

Great Britain—*Board of Trade.* Report of Lieut. Colonel Sir Frederick Smith and Professor Barlow on the atmospheric railway. Lond., 1842. F. pp. 19.

—— BERGIN, T. F. The atmospheric railway; observations on the report of Lieut. Colonel Sir Frederick Smith and Professor Barlow on the atmospheric railway; addressed to Francis Low, chairman of the Dublin and Kingston railway. Dublin, 1843. O. pp. 86. 1 *fig.*
"Jacob Owen with Mr. Bergin's compts."

—— *House of Commons.* Croydon and Epsom railway; minutes of the evidence of the engineers examined before the committee, with reference to the working of railways upon the atmospheric principle. Ordered printed, 10 June, 1844. [Lond.,1844.] F. pp. 98. 1 *diagr.*, 4 *fold. diagrs.*, 2 *fold. tables.*

—— Dublin and Kingstown railway bill: preamble of the bill as presented to the committee. Lond., [1833.] F. pp. (1) + 2. 1 *fold. colored plate.*

—— Dublin and Kingstown railway committee: [report of proceedings and minutes of evidence,] 17th-27th May, 1833. [Lond., 1833.] 11 pts. F.

—— Dublin and Kingstown railway: copies of correspondence and papers relating to the Dublin and Kingstown railway. Ordered printed, 28 February, 1843. [Lond., 1843.] F. pp. 24. 2 *fold. plates.*

—— [Dublin and Kingstown railway and] Kingstown harbour: copies of correspondence respecting the Dublin and Kingstown railway, the Atmospheric railway, and Kingstown harbour. Ordered printed, 10 May, 1844. [Lond., 1844.] F. pp. 46. 2 *fold. plans.*

—— Dublin and Kingstown railway: correspondence with the Commissioners of Public Works, as to loans of £50,000 and £25,000. [Lond., 1833.] F. pp. 17.

—— Report from the select committee on atmospheric railways, with minutes of evidence, appendix. Ordered printed, 24 April, 1845. [Lond., 1845.] F. pp. viii + 195 + iv + 33.

[Hallette, A.] Tube propulseur-Hallette; système d'exécution et d'exploitation des chemins de fer par la pression atmosphérique. [Paris, 1845 ?] O. pp. 45. 2 *fold. plates.* P. 50.

Pim, J. *jr.* Irish railways: the atmospheric railway; a letter to Lord Viscount Morpeth. Lond., 1841. O. pp. 15. P. 50.

Roussel, J. B. Nouveau système d'exploitation des chemins de fer, au moyen de l'air comprimé, avec récupération de l'air par un tube longitudinal alimenté gratuitement. Versailles, 1845. O. pp. 11. 1 *fold. plate.* P. 50.

[S., L.] L'ingegnere G. B. Piatti: ferrovia ad aria compressa; traforo del Cenisio: commemorazione. Milano, 1867. O. pp. 28. P. 50.
"Estratto dagli *Annali universali di statistica*, ottobre, 1867."

Samuda, J. d'A. A treatise on the adaptation of atmospheric pressure to the purposes of locomotion on railways. Lond., 1844. O. pp. (2) + 50. 2 *fold. plates.* P. 50.

Stephenson, R. Report on the atmospheric railway system. Lond., 1844. sq. Q. pp. (1) + 44. 27 *plates*, 1 *fold. table.*
Addressed "To the Directors of the Chester and Holyhead railway."

Turnbull, W. An essay on the air-pump and atmospheric railway; containing formulae and rules for calculating the various quantities contained in Robert Stephenson's report on atmospheric propulsion, for the directors of the Chester and Holyhead railway. Lond., 1847. S. pp. viii + 96. 6 *figs.*

II. CABLEWAYS AND CABLE RAILWAYS.

Agudio, T. Aux intéressés au chemin de fer du Saint-Gothard: mémoire et propositions pour l'application du système Agudio aux rampes d' accès et à la traversée du grand tunnel des Alpes. Turin, 1876. O. pp. 45. 3 *fold. plates.*

—— Conferenza sui sistemi Agudio e Fell; e sulle ferrovie di Soperga e del Monginevra tenuta nel recinto dell' Esposizione de Torino. Torino, 1885. D. pp. (1) + 5-71. P. 22.

—— Mémoire sur un nouveau système de traction sur les plans inclinés des chemins de fer et des mines par le moyen d'un moufle différentiel à double effet ou locomoteur-funiculaire. Turin, 1863. O. pp. 71. 2 *fold. plates*, 1 *fold. table.*
"À l'Association amicale des anciens élèves de l'École centrale des arts et manufactures de Paris."

—— Una pronta Succursale dei Giovi: memoria tecnica. Torino, 1887. F. pp. (4) + 9-52. 1 *fold. plate.*

—— Italy—*Ministero dei Lavori Pubblici.* Sul piano inclinato di Lanslebourg à trazione funicolare secondo il sistema dell' ingegnere Tommaso Agudio. Relazione della Commissione governativa italiana. Roma, 1876. Q. pp. 161. 13 *fold. plates.*

—— Paris — *Exposition Universelle, 1867.* Système Agudio: locomoteur avec adhérence au moyen du rail central: poulies-support du câble; résumé des opinions des diverses commissions téchniques sur ce système de traction expérimenté à Dusino. Turin, 1867. O. pp. (1) + 5–35. 2 *fold. plates.*

Breitenlohner, — Maschinen-Backtorf und Hodgson's Drahtseilbahn. Prag, 1873. O. pp. (1) + 73. P. 74.

Cable railroads: history of the growth of a California [*sic*] invention; description of the wire rope system for street cars. San Francisco, 1881. F[4]. pp. (7). 19 *figs.* P. 98.
Extracted from *Mining and scientific press,* vol. 43. Sept. 3, 1881.

Grivet, F. Chemin de fer de Lyon à Fourvière et St. Just a traction funiculaire: description des travaux exécutés et du matériel fixe et roulant. Paris, 1882. F. pp. 39. 7 *fold. plates.* M. 8.
"Extrait de la *Revue générale des chemins de fer.*" 1882

[Hallidie, A. S.] A brief history of the cable railway system; its origin and progress, and papers in connection therewith. San Francisco, 1891. O. pp. 20. 1 *plate,* 2 *fold. plates.* P. 98.
"From the *Report of the Mechanics' Institute Exposition,* 1890."

Hong-Kong High Level Tramways Company. A short account of the company's Peak tramway: the first cable railway on the continent of Asia. Hong-Kong, 1888. T. pp. (1) + 45.

Lefebvre, G. Notice sur le tramway funiculaire à cable sans fin de Belleville. Paris, 1892. Q. pp. 28. 2 *fold. plates.*
"Extrait de la *Revue pratique des travaux publics,* nos. 11 et 12. 1892."

Lévy-Lambert, A. Chemins de fer funiculaires, transports aériens. Paris, 1894. O. pp. (3) + 334. 147 *figs.*

Lidgerwood Manufacturing Company. Cableway sketches. 2d ed. N. Y., 1894. obl. T. pp. 104. 87 *figs.*

Market Street Cable Company. The system of cable railways for cities and towns, as operated in San Francisco and Chicago. San Francisco, [1884.] Q. pp. 68. 15 *figs.,* 1 *fold. plan.*

Market Street (The) cable railway system; an historical sketch. [San Francisco, 1890?] broadside. obl. O. 6 *cts.* P. 98.

Miller, S. Cableways. N. Y., 1894. O. pp. (18). 13 *figs.,* 5 *plates.* P. 98.
Extracted from *Transactions of the American Society of Civil Engineers,* vol. 31. April, 1894. pp. 397–414.
"Compliments of the Lidgerwood M'f'g. Co."

Pacific Cable Railway Company. The system of wire-cable railways for cities and towns, as operated in San Francisco, Los Angeles, Chicago, St. Louis, Kansas City, New York, Cincinnati, Hoboken. San Francisco, 1887. Q. pp. (4) + 15–66 + (2). 9 *figs.,* 22 *plates,* 1 *fold. map.*

Pohlig, J. Chemins de fer aériens, "Système Otto." Cologne et Bruxelles, 1893. obl. S. pp. 40. 3 *fold. plates,* 15 *photos.*
Cover title.

—— Otto'sche Drahtseilbahnen mit den neuesten Verbesserungen. Cöln und Brussel, [1893.] F. pp. 24. M. 8.
Cover title.

—— Wire ropeways: Otto's patent. n.t.p. [Cologne and Bruxelles, 1893.] Q. pp. (8). 5 *figs.*

Smith, J. B. A treatise upon cable or rope traction, as applied to the working of street and other railways. Lond., 1887. sq. Q. pp. (3) + vii–xii + 195. 81 *figs.,* 4 *plates,* 3 *fold. plates.*
"Revised and enlarged from *Engineering.*"

Sorrentino, S. *and* **Avena, A.** Di una funicolare aerea tra via Roma ed il corso Vittorio Emanuele. Napoli, 1885. sq. O. pp. (5) + 37. 3 *fold. plates.* P. 74.

Sturb, E. Die Drahtseilbahn Territet-Montreux-Glion. Aarau, 1888. D. pp. 57. 7 *figs.,* 1 *plate,* 5 *fold. plates.*

—— *Same, French:* Le chemin de fer funiculaire de Territet-Montreux-Glion; traduit par A. Vautier. Aarau, 1888. D. pp. 55. 7 *figs.,* 1 *plate,* 5 *fold. plates.*

III. CITY RAILWAYS.

Boccardo, G. La traversata ferroviaria della città di Genova. Genova, 1861. F. pp. (2) + 5–24. 1 *fold. map.* M. 8.

Brooklyn (*N. Y.*)—*Commissioners of Rapid Transit.* Minutes and proceedings of the Commissioners appointed Dec. 23, 1889. Brooklyn, [1890.] O. pp. v + 226 + (1). 6 *fold. plates.*

Cambiaggi, E. Le tramways. Dissertazione. Torino, 1876. O. pp. (2) + 5–48. 1 *fold. plate.* P. 74.

Caprani, A. G. A proposito della ferrovia metropolitana in Napoli: scritti vari di A. G. Caprani, con lettera aggiunta delle B. Paoni. Napoli, 1884. O. pp. 57. P. 34.

Chaillou, A. Tramways: principes d'organization d'une exploitation de tramways. Paris, 1880. O. pp. (2) + 5–212, and *Atlas,* F., *of* 147 *plates.*

Clark, D. K. [Tramways: their construction and working. *French:*] Tramways: construction et exploitation; historique détaillé du système; analyse des divers modes de traction; description des différentes variétés de matériel roulant et détails sur les dépenses de construction et d'exploitation, spécialement en ce qui touche les tramways du Royaume-Uni. Ouvrage traduit de l'Anglais par O. Chemin. Paris, 1880. O. pp. (2) + v-xvi + 446. 152 *figs.*, and *Atlas*, F., *of* 10 *plates*, 14 *fold. plates.*

—— *Same. German:* Die Strassenbahnen, deren Anlage und Betrieb; einschliesslich einer fasslichen Geschichte der bedeutendsten Systeme und eingehenden Untersuchung der verschiedenen Arten von Zugkraft, sowie einer Beschreibung der verschiedenartigen Betriebsmaterialien und Aufstellung der Anlage- und Betriebskosten, mit specieller Bezugnahme auf die Strassenbahnen in Grossbritannien. Autorisirte deutsche Ausgabe, herausgegeben von W. H. Uhland. Leipzig, 1886. sq. Q. pp. vi + (2) + 200. 168 *figs.*, 12 *fold. plates.*

—— Tramways: their construction and working; embracing a comprehensive history of the system, with an exhaustive analysis of the various methods of traction, a description of the varieties of rolling stock and details of cost and working expenses, with special reference to the tramways of the United Kingdom. Supplementary volume. Lond., 1882. O. pp. (1) + v-xvi + 232. *frontisp.*, 76 *figs.*

Easton, A. A practical treatise on street or horse-power railways: their location, construction and management; with general plans and rules for their organization and operation. Philadelphia, 1859. O. pp. vi + 3-149. 24 *plates.*
pp. 141-149 advertisements.

Ferraris, M. I tramways e le ferrovie su strade ordinaire. Torino, 1880. O. pp. 54. 2 *figs.* P. 74.
"Estratto dal periodico *L'ingegneria civile e le arti industriali*, anni 5 e 6."

Hoerder Bergwerks und Hütten-Verein. Rillenschienen-Strassenbahnen und Patent-Achsen. Hoerde, Westfalen, n.d. F. pp. (21). 6 *figs.*, 57 *plates*, 5 *fold. plates.*

[Jacqueline, E.] Les chemins de fer dans les villes; étude d'après M. Brame. Paris, 1856-84. obl. F^4. pp. (2). 3 *plates.*
Cover title.

Kaiser, — Die Stuttgarter Pferde-Eisenbahn; bearbeitet im Auftrag der Bauabteilung des Gemeinderats. Stuttgart, 1885. O. pp. (2) + 107. 41 *figs.*
"Litteratur" p. (2).

Lee, — *and* **Nightingale,** — *reporters.* Report of the banquet, given by George Francis Train, of Boston, U. S., to inaugurate the opening of the first street railway in Europe, at Birkenhead, August 30, 1860: with opinions of the press on the subject of street railways. Liverpool, 1860. O. pp. 117 + (1). 1 *fold. plate.*

Lorenz, A. Strassenbahnen mit Dampfbetrieb, Dampftramway, im Allgemeinen und mit Rücksicht auf die Linien: Brünn-Znaim. Brünn, 1884. nar. O. pp. (1) + 23. P. 34.
"Separat-Abdruck aus dem *Tagesboten aus Mähren und Schlesien.*"

Miglietta, C. Sulle vetture a vapore (steam-cars). Mortara, 1882. O. pp. vii + 49. 9 *plates.* P. 74.

[Noble (John) and Company, *publishers.*] Facts respecting street railways; the substance of a series of official reports from the cities of New York, Brooklyn, Boston, Philadelphia, Baltimore, Providence, Newark, Chicago, Quebec, Montreal and Toronto. Lond., 1866. O. pp. (56). 2 *figs.* P. 34.

Passenger Railroad Locomotive Manufacturing Co. B.C. Pole silent street car motor. Philadelphia, [188—] O. pp. 13. 1 *plate.* P. 74.

Raillard, — Notice sur les tramways de la Belgique, suivie d'un note sur les courbes de raccordement de ces voies ferrées. Paris, 1875. O. pp. 60. 3 *figs.*, 1 *fold. plate.* P. 34.
"Extrait des *Annales des ponts et chaussées*, 1875. 2e sem., tome 10."

Sérafon, F. Les chemins de fer métropolitains et les moyens de transport en commun à Londres, New-York, Berlin, Vienne et Paris. Paris, 1885. O. pp. (2) + v-vii + 9-126 + (1). 8 *figs.*

—— Étude sur les chemins de fer, les tramways et les moyens de transport en commun à Paris et à Londres, suivie d'une notice sur la construction et l'exploitation des tramways. Paris, 1872. O. pp. (2) + v-viii + 110 + (1). *frontisp.*, and *Atlas in pocket of* 3 *fold. plates.*

—— Manuel pratique de l'exploitation des chemins de fer des rues et des chemins de fer sur routes; accompagné d'un supplément sur la construction. Paris, 1878. D. pp. (5) + 9-287. 13 *fold. plates.*

—— Les tramways et les chemins de fer sur routes. Paris, 1882. D. pp. (2) + 5-384. 176 *figs.*

Tramways (Les): historique, traction animale, traction mécanique, dispositions des voies, matériel roulant, coût d'établissement, exploitation, renseignements financiers. Paris, [1876.] D. pp. (4) + 76 + (1). P. 34.

Wright, A. W. American street railways: their construction, equipment and maintenance. Chicago and N. Y., 1888. D. pp. (6) + 11-200. 68 *figs.*, 1 *fold. plate.*

a. BERLIN.

Berliner (Die) Stadtbahn: Linie, Bau, Betrieb; von einem Techniker. Berlin, 1883. D. pp. (1) + 5–44.

Gaudin, P. *and* **Zuber, J.** Le chemin de fer métropolitain de Berlin. Paris, 1887. O. pp. (2) + vi + (2) + 136. 38 *figs.*, 10 *plates*, 1 *colored fold. plate.*
"Ouvrages consultés," p. (2).

Prussia—*Ministerium der Oeffentlichen Arbeiten.* Die Bauwerke der Berliner Stadt-Eisenbahn. Berlin, 1886. F°. pp. viii + (2) + 93. 186 *figs.*, 35 *plates*, 3 *fold. plates*, 1 *fold. map.*
"Sonderdruck der amtlichen Veröffentlichungen aus der *Zeitschrift für Bauwesen.*"

Schwabe, H. Berliner Südwestbahn und Centralbahn, beleuchtet vom Standpunkte der Wohnungsfrage und der industriellen Gesellschaft. Berlin, 1873. O. pp. (2) + 52. 3 *diagrs.*, 1 *fold. map.* P. 19.

b. LONDON.

[Bradfield, J. E.] Tramways or railways on metropolitan streets will be mischievous & dangerous obstructions and nuisances. (Revised as applicable to the scheme of 1867.) Lond., 1867. O. pp. 24. P. 32.

Bruce, G. B. Street railways. n.t.p. [Lond., 1860.] D. pp. 10. P. 34.

Derome, — *and* **Boreux, —** Note sur le Métropolitain railway à Londres. Paris, 1867. O. pp. (2) + 16. 1 *fold. plate.* P. 32.
"Extrait des *Annales des ponts et chaussées*, tome 12, 1866."

Great Britain — *House of Commons.* Parks railway bill: copy of correspondence between the government and the Metropolitan railway with reference to the proposed Parks railway bill. Ordered printed, 3 March, 1884. Lond., [1884.] F. pp. 3.

—— Special report from the select committee on the Metropolitan railway (Park railway and Parliament street improvement) bill, with the proceedings of the committee, minutes of evidence and appendix. Ordered printed, 26 May, 1884. Lond., [1884.] F. pp. xviii + 527. 2 *fold. maps.*

—— — *House of Lords.* Minutes of evidence taken before the Lords committees to whom the bill intituled "An act for making a railway to join the London and Birmingham railway at or near the Regent's canal, and proceed from thence to Skinner's street in the City, to be called 'The London Grand Junction railway' was committed". Ordered printed, 10th May, 1836. [Lond., 1836.] F. pp. 290.

—— — *Metropolitan Railway Commission.* Report of the Commissioners appointed to investigate the various projects for establishing railway termini within, or in the immediate vicinity of the metropolis. Lond., 1846. F. pp. 21.

—— Minutes of evidence taken before the Commissioners [with maps, plans, and sections of metropolitan railways and termini, referred to in the minutes of evidence.] Lond., 1846. F. pp. iii + 369. 36 *fold. maps and plates.*

—— — *Parliament*—45 & 46 *Vict.* An act for incorporating the Regent's Canal, City and Docks railway company; for authorising the construction of railways from the Great Western railway at Paddington to the City and to the Royal Albert dock of the London and Saint Katharine docks company. Royal assent, 18th August, 1882. Lond., 1882. F. pp. vii + 283.

—— — 48 & 49 *Vict.* Select committees on Regent's Canal, City and Docks railway bill: minutes of evidence, speeches and proceedings in the House of Commons and House of Lords. [Lond., 1885.] 4 pts. bd. in 1 vol. F. pp. (3) + 21; 18; 47; 38.

—— — *Railway Department of the Board of Trade.* Report on schemes for facilitating the approach to the metropolis. Ordered printed, 13th March, 1845. [Lond., 1845.] F. pp. 5. 1 1 *fold. map.*

Haywood, W. Report to the special committee upon improvements, of the Commissioners of Sewers of the City of London, on the traffic and improvements in the public ways of the city. Lond., 1866. D. pp. (3) + 7–112. 1 *fold. map.* P. 32.

Huet, — Étude d'un réseau de chemins de fer métropolitains pour la ville de Paris: mission à Londres en mai 1876: les chemins de fer métropolitains de Londres. Paris, 1878. O. pp. (2) + 132. 1 *plate*, 3 *fold. maps.*

Lane, C. B. Railway communication in London, and the Thames Embankment. 2d ed. Lond., 1861. O. pp. 24. P. 32.

Lythgoe, J. P. The Metropolitan railway: its position and prospects examined. Lond., 1868. D. pp. 21 + (2).

Mackay, C. Street tramways for London: their utility, convenience, and necessity; with remarks on the working of street railways in the United States and Canada. Lond., 1868. O. pp. 19 + (1). P. 32.

Metropolitan (The) railway a fifteen per cent. paying line. 6th ed. Lond., 1868. O. pp. (2) + 5–52.

Metropolitan tramways. n. t. p. [Lond., 1867.] O. pp. 22. 1 *fold. map.* P. 32.

New metropolitan railways; a view of the comparative merits of the various metropolitan railway projects, and the projects for effecting through-lines between the railways of the north

and the railways of the west of England, via London, and the railways, or ports and watering places of the south and south-east of England. Lond., 1845. O. pp. (2) + 3–37. 1 *fold. map.* P. 32.

Parsons, P. M. Proposed London railway, to afford direct railway communication between the City and Westminster and all the western suburbs. Lond.,[1853.] O. pp. 29. 2 *fold.maps.* P. 32.

Rea, S. The railways terminating in London, with a description of the terminal stations, and the underground railways. N. Y., 1888. O. pp. (3) + 56. 2 *fold. maps in pockets,* 3 *fold. tables.*

Rogers, E. D. Report on the projected railway schemes affecting the ward of Aldgate, of session 1864; and remarks on the unjust state of the law of compensation; prepared and published by request of the committee of the Aldgate Ward Ratepayers' Association. 3d ed. Lond., [1864.] O. pp. 14. 1 *map.* P. 32.

Street tramways in London: [the passing of a private bill to lay down iron railways in the crowded streets of London will create in the already crowded streets of traffic, most mischievous and dangerous obstructions and nuisances.] n.t.p. Lond., 1868. O. pp. 3–26. P. 32.

Train, G. F. Observations on horse railways, addressed to Milner Gibson, M. P., president of the Board of Trade. Lond., 1860. O. pp. 56. 1 *plate.* P. 32.

Tramways as a means of facilitating the street traffic of the metropolis. Lond., 1865. O. pp. 16. 1 *plate.* P. 32.

Troske, L. Die Londoner Untergrundbahnen. Berlin, 1892. F. pp. (4) + 102. 156 *figs.*, 2 *fold. plates.*

"Sonder-Abdruck aus der *Zeitschrift des Vereines deutscher Ingenieure,* 1891 und 1892."

c. New York.

Rapid transit [underground] for New York. 2d ed. [N. Y., 1891.] sq. Q. pp. 15. 8 *fold. plates.*

Cover title.

Viele, E. L. The Arcade underground railway [New York.] [N. Y., 186–.] Q. pp. (3)+ 28. *frontisp.*, 1 *fig.*, 1 *fold. map.*

Wegmann, E. *jr. and* **Bates, C. J.** A system of rapid transit for the city of New York. N. Y., 1890. O. pp. 8. 3 *fold. plates.*

d. Paris.

Brunfaut, J. Chemin de fer métropolitain et de la banlieue de Paris. 2e pte. Paris, 1873. nar. Q. pp. 355. 7 *fold. maps.*

Deligny, E. Le chemin de fer métropolitain de Paris. Paris, 1884. O. pp. 76. 1 *fold. map.* P. 33.

Cover title.

Étienne, L. Note sur les travaux d' exhaussement du chemin de fer de ceinture de Paris entre le tunnel de Charonne et la rue de Charenton pour la suppression des passages à niveau. Paris, 1890. nar. O. pp. (2) + 5–46. 6 *fold. plates.* P. 33.

"Extrait des *Annales des ponts et chaussées,* juin 1890."

Garnier, J. Avant-projet d'un chemin de fer aérien à voies superposées, à établir sur les grandes voies de Paris. Paris, 1884. F. pp. 43. 7 *figs.*, 8 *fold. plates.*

Haag, P. Le métropolitain de Paris et l'élargissement de la rue Montmarte. Paris, 1883. sq. F. pp. 20. 1 *fold. plate,* 2 *fold. maps.* M. 8.

—— Note sur le chemin de fer métropolitain dans Paris. Paris, 1884. O. pp. (16). 1 *fig.*, 1 *fold. plate.* P. 28.

Extracted from *Mémoires de la Société des Ingénieurs Civils.* 4e série, 37e année, décembre 1884. pp. 541–556.

Hersant, J. Nouveau système pratique du métropolitain de Paris avec gare centrale. Paris, 1885. D. pp. 35. 7 *plates.* P. 33.

Heuzé, L. Chemin de fer transversal à air libre dans une rue spéciale, passage couvert pour piétons. Paris, 1878. sq. F. pp. (1) + 19 + (1). 5 *plates,* 1 *fold. plate.*

[Testud de Beauregard, F.] Comparaison des deux principaux projets de chemin de fer métropolitain parisien. Lille, 1883. O. pp. 35. 1 *fold. map.* P. 33.

Cover title: "par Testud de Beauregard. Paris, 1883."

e. Vienna.

Bode, N. R., Wellenheim, O. v. *and* **Seeberg, F.]** Wiener Stadt-Eisenbahn: Project der Wiener Bau-Gesellschaft und des Wiener Bank-Vereines. October, 1881; technischer Bericht. Wien, 1881. sq. Q. pp. 25. 2 *fold. plates,* 1 *fold. plan.*

Cover title

Feilbogen, M. Studie über die Wiener Stadtbahn unter Berücksichtigung der concessionirten Wiener Gürtelbahn, des Wienfluss- Regulirungs- und Stadtbahn - Projectes des Stadtbauamtes. Wien, 1883. sq. F. pp. 13. 5 *fold. plates.*

Flattich, W. *Ritter* **von** *and* **Prangen, W. von.** Studie über die Wiener Stadtbahnen mit Beziehung auf die Entwicklung der Stadt Wien. Wien, 1883. sq. F. pp. 26. 4 *plates,* 7 *fold. plates.*

f. Zurich.

Bürkli-Ziegler, A. *and* **Huber, P. E.** Bericht über Strassenbahnen, Tramways und deren

Einführung in Zurich. Zurich, 1878. O. pp. viii + 150. 2 *fold. plates.* (Technische Mittheilungen. 11. Heft.)
"Verzeichniss der hauptsächlich benutzen Litteratur," p. 11.

Zürich (*Kanton*)—*Direction der Oeffentlichen Arbeiten.* Bericht betreffend Zurcher Strassenbahnen; erstattet von den Experten John E. Brustlein, E. Riggenbach. Zürich, 1892. sq. Q. pp. 13. 5 *plates*, 3 *fold. maps.*
In case.

—— (*Stadt*)—*Eisenbahnkommission.* Bericht [von Prof. Wild] über Benutzung der Strassen fur Pferdebahnen. n.t.p. [Zürich, 1862.] O. pp. 18. P. 34.

—— —*Stadtrath.* Ueber Strassenbahnen und Eisenbahnen in Städten. Bericht von A. Bürkli. Zürich, 1865. O. pp. 96. P. 34.
Cover title.

IV. ELECTRIC RAILWAYS.

Bonneau, H. *and* **Desroziers, E.** Étude sur la traction électrique des trains de chemin de fer. Paris, 1892. O. pp. (1) + 7-17. 3 *plates.* P. 74.

Brill (J. G.) Company. Electric cars and trucks. Philadelphia, 1892. obl. O. pp. 115. 63 *figs.*
Cover title.

—— Trucks for four-wheeled and eight-wheeled cars. Philadelphia, 1894. obl. T. pp. 14. 2 *figs.*, 12 *fold. facsimile letters.*

Castagneris, G. Tramvie e ferrovie elettriche. Milano, 1894. D. pp. 432. 170 *figs.* (Biblioteca dell' elettricità. vol. 19 e 20.)

Chrétien, J. Chemin de fer électrique des boulevards à Paris. 2e ed. Paris, 1881. sq. O. pp. 64. 21 *figs.*, 1 *plan.* P. 74.

Crosby, O. T. *and* **Bell, L.** The electric railway in theory and practice. N. Y., 1892. O. pp. 400. 179 *figs.*

—— *Same.* 2d ed., revised and enlarged. N. Y., 1893. O. pp. (2) + 416. 183 *figs.*

[Cutter Electrical and Manufacturing Company.] A problem in electric railway economy solved. [Philadelphia, Pa., 1892?] obl. T. pp. 15. 10 *figs.* P. 74.

Denizet, F. Note sur le tramway électrique de Marseille et bases d'une comparaison des différents systèmes de traction mécanique des tramways. Paris, 1893. Q. pp. (2) + 5-64. 4 *figs.*, 5 *fold. plates.*

Dubs, H. Les tramways électriques de Marseille. Marseille, 1893. O. pp. (23). 4 *figs.*, 1 *chart.*
Extracted from *Bulletin de la Société Scientifique Industrielle de Marseille.* 20e année. pp. 230-252.

Fiske, *Lieut.* B. A. The electric railway. N. Y., 1884. O. pp. (10). 4 *figs.* P. 47.
Extracted from *Popular science monthly*, vol. 24. April, 1884. pp. 742-751.

Gadot, P. La traction électrique et la traction animale des tramways. Paris, 1891. D. pp. (2) + 5-139 + (1). 6 *figs.*

Hedges, K. American electric street railways; their construction and equipment, with notes as to the cost of installation and of maintenance also the advantages of electric traction compared with other methods. Lond., N. Y., 1894. Q. pp. ix + 205. 201 *figs.*, 8 *plates*, 1 *fold. plate.*

Kareis, J. Ueber elektrische Eisenbahnen. Wien, 1892. D. pp. (3) + 7-32. 1 *fig.* (Wirtschaftliche Streiflichter. 4. Heft.)

Krämer, J. Die elektrische Eisenbahn bezüglich ihres Baues und Betriebes. Wien, Pest, Leipzig, 1883. D. pp. xiv + (1) + 272. 105 *figs.*, 2 *fold. plates.* (Elektro-technische Bibliothek. Band 17.)

Krieg, M. Die elektrischen Motoren und ihre Anwendungen in der Industrie und im Gewerbe sowie im Eisen- und Strassenbahnwesen. Leipzig, 1891. O. pp. xii + 252. 166 *figs.*, 1 *fold. plate.*

[Prindle, H. B.] A popular treatise on the electric railway. Boston, [1890.] D. pp. 55 + (4). 39 *figs.* P. 74.
Cover title: The electric railway of to-day; by H. B. Prindle.

Safety Electric Railway and Power Company (Daft System). [Electric railways.] N. Y., [1886?]. obl. O. pp. 49 + (2). 20 *figs.*

Short Electric Railway Company. [Electric railways.] Cleveland, O., n.d. obl. O. pp. 42. 41 *figs.*

V. SPECIAL RAILWAYS.

Ferretti, A. Sulle ferrovie di montagna: studii e proposte. Mantova, 1870. O. pp. (2) + 5-114.

Förster, G. R. Das forstliche Transportwesen; Darstellung seiner Mittel und Anstalten mit Rücksicht auf zweckmässige Auswahl, Einrichtung und Benutzung derselben. Wien, 1885. Q. pp. xv + (1) + 592, and *Atlas*, obl. Q. pp. (6) + 40 *plates.*

France—*Mission Française des Travaux Publics.* Chemin de fer de Diakophto à Kalavryta; voie de 0,75 à adhérence et crémaillère: notice; [par A. Gotteland, le directeur de la Mission.] n.p., n.d. F. pp. 31 + (54). 167 *figs.*, 2 *fold. plates*, 6 *photo. plates.*
Report dated: Athènes, le 16/28 janvier 1893.

Klunzinger, P. Die schmalspurige Montan-Bahn von Bostoken nach Marksdorf in Ungarn. Wien, 1875. O. pp. 37. 4 *fold. plates.* P. 20.
"Separatabdruck aus der *Allgemeinen Bauzeitung*, Jahrgang 1875."

Kuntze, A. Die schmalspurige Eisenbahn von der Lahn nach der Grube Friedrichssegen bei Oberlahnstein: gemischte Adhäsions- und Zahnradbahn. Leipzig, 1883. sq. F. pp. 10. 3 *fold. plates.*
"Separatabdruck aus der *Zeitschrift des Vereines deutscher Ingenieure.* Bd. 26."

Lévy-Lambert, A. Chemins de fer à crémaillère: tracés; types de crémaillères, systèmes Riggenbach, Abt, Locher; matériel roulant; exploitation. Paris, 1892. O. pp. xii + 296 + (3). 79 *figs.*

Nicou, — Un chemin de fer à rail unique surélevé établi en Irlande. Paris, 1888. nar. O. pp. 24. 2 *figs.*, 2 *fold. plates.* P. 22.
"Extrait des *Annales des ponts et chaussées*, août, 1888."

Runnenbaum, A. Die Waldeisenbahnen. Berlin, 1886. O. pp. xv + 104. 47 *figs.*, 17 *plates.*

Verband der Rheinisch-Westfälischen Thierschutz-Vereine. Die Wald-Eisenbahn in ihrer Bedeutung bezüglich einer wirksamen Verhinderung von Thierquälereien beim Abfahren des Holzes aus den Forsten, bei gleichzeitig bedeutender Verminderung der Betriebskosten; Referat von Ferd. Jagenberg. Remscheid, 1891. sq. Q. pp. 20. 24 *figs.* M. 8.

Vigreux, L. *and* **Loppé, F.** Les chemins de fer à crémaillères et les chemins de fer funiculaires à crémaillères à l' Exposition universelle de 1889. Paris, 1893. Q. pp. (2) + 93–192 + (2), and *Atlas*, sq. F[t]., *of* 10 *fold. plates.*
"Extrait de la *Revue technique de l'Exposition universelle de* 1889."

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